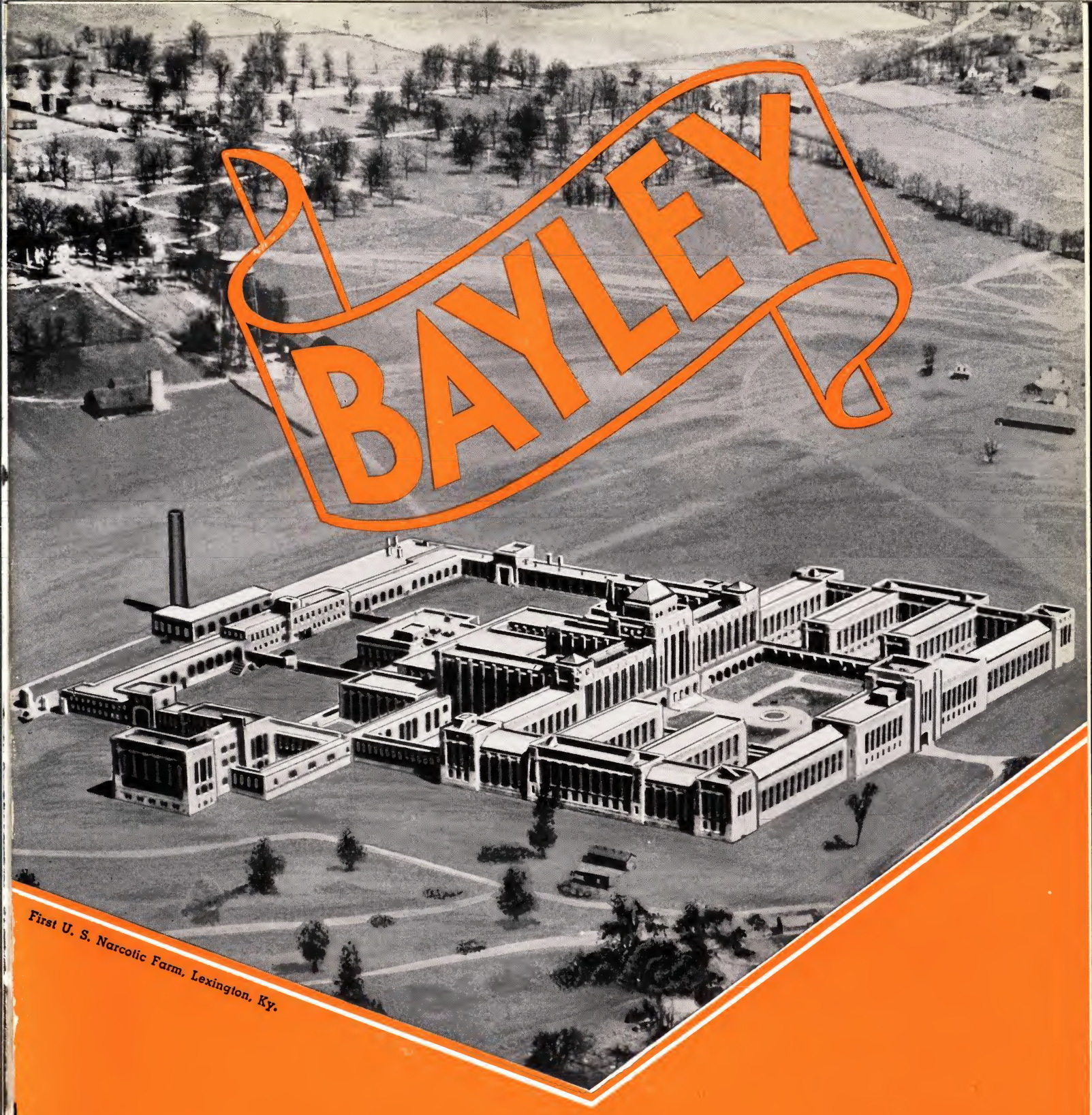


First U. S. Narcolic Farm, Lexington, Ky.

STEEL WINDOWS • STEEL DOORS AND OPERATORS

THE WILLIAM BAYLEY COMPANY

© 1938 The William Bayley Co. G. C. 38

FOR fifty-six years the William Bayley Company has enjoyed the reputation of producing the finest types of metal products. Those years of experience and that reputation provide the strongest possible incentive to the men and management of the modern Bayley organization to maintain the highest standards and produce the best possible windows, doors and operators. A continuous flow of Bayley patents throughout these years indicates the progressiveness of the Bayley Company and forecasts continual leadership.

The features of Bayley Products are built around fundamentals that prompt the most advanced methods of mechanical jointing, riveting, welding, pressing and finishing. Steel, wrought iron, bronze and aluminum are used extensively and all materials, design, workmanship and finish are those best suited to the service requirements of the product.

Bayley engineers will welcome an opportunity to co-operate with architects, engineers and contractors in designing, selecting and specifying windows, doors and operators. The table below indicates the scope of Bayley Products and serves as a guide to the recommended uses of each.

BAYLEY PRODUCTS

PRODUCT	RECOMMENDED USES	PAGES
PIVOTED WINDOWS	Sidewalls of factories, warehouses, garages, lofts and industrial buildings. Sides of monitors and vertical sawtooth construction. Available in steel, wrought iron and aluminum.	3 to 7
PIVOTED WINDOWS—Screened	Same uses as above and elsewhere, when conditions demand insect protection as in bakeries, packing plants, laboratories, printing plants, power houses. Steel or wrought iron.	8-9 (5, 6 and 7)
PROJECTED WINDOWS COMMERCIAL—Screened	For garages, lofts, storage and industrial buildings. Steel, wrought iron or aluminum.	10-11 (5 and 7)
PROJECTED WINDOWS ARCHITECTURAL—Screened	For schools, clubs, offices, public and monumental buildings. Steel or steel hot dip galvanized.	12-13
DETENTION AND PROTECTION WINDOWS	Originated by Bayley. Six types to meet all conditions. For complete description of each type refer to Pgs.	14 to 18
CASEMENTS — Series 30 Inswing, Outswing, Projected and Combination Types	For residences, offices and monumental buildings. Various combinations to meet specific requirements. Steel, bronze or aluminum.	26 to 29
UTILITY WINDOWS	Companion product to Pivoted and Projected Windows. Used on lot lines. May be screened, steel or wrought iron.	19
BASEMENT WINDOWS	Residences and all places where a small economical steel window is needed.	19
ECONOMY INSERTS	Used in concrete construction. Provide mastic sealed recesses for steel windows.	19
CONTINUOUS WINDOWS AND OPERATORS	For monitors and sawtooth roof construction. Steel in 3, 4, 5, 6 foot heights.	24-25
MECHANICAL OPERATORS	For sidewall and continuous windows. Formerly made by the Metallic Sash Operator Co. of St. Louis, acquired outright by Bayley, now manufactured at Springfield, Ohio, offered with or without window products.	25
DOORS, Industrial Tubular, Structural Airplane Hangar	For all purposes. Hinged, sliding, rolling, folding, canopy, bifold, vertical lift and overhead. In tubular or structural steel. Complete with Bayley hardware. Airplane Hangar door shown in separate catalog.	20-23
UNDERWRITERS' LABELS	Available with pivoted, pivoted windows screened, projected commercial and architectural, protection, and security windows.	19

DESIGNED primarily for use in the sidewalls of factories, warehouses, garages, lofts, power houses and similar types of industrial buildings Bayley Pivoted Windows may also be advantageously used in the sides of monitors and in vertical sawtooth construction.

Materials and Features

PIVOTED WINDOWS are of new billet mild steel, wrought iron, or aluminum sections designed for permanence, low cost maintenance and easy fabrication. Their flat surfaces are easily painted and have no sharp edges to encourage corrosion. The deep angle frame is of a size sufficient to provide ½" engagement at head, jambs and sill in all wall constructions. Basic glass size is 12 x 18" and 14 x 20". Glass in ventilator is trimmed 1" at perimeter.

INTERIOR BAR IS T SHAPED, a characteristic Bayley section, and has a flange containing no greater amount of metal than its web and a depth of 1½". This dimension in Bayley windows is the basis of exclusive features such as screening, double glazing, hardware, etc. It provides for a tenon of extra size which makes a tight and permanent joint. It allows space for bed and face putty and either ⅛" or ¼" glass.

INTERSECTION OF INTERIOR bars is accomplished by threading the vertical through horizontal bar. Horizontal bar is punched in web. Vertical bar is punched in flange. After assembly, a wedge is driven at intersection, making entire construction rigid. Bars are not bent or manipulated in assembly. This construction provides strength almost equal to the original bar. Disinterested, exhaustive laboratory and usage tests prove this construction withstands high wind pressure without permanent deflection.

WEATHERING AT HINGE is provided by lapping upper weathering on ventilator over lower weathering on fixed portion of window. Ventilator contacts are close fitting. Vertical contacts are cold rolled. Horizontal contacts are one-piece rolled sections integral to ventilator and unit and are 1⅝" deep.

HINGE PIVOT is 3" above center of ventilator. It is contained within contact members and does not project beyond faces of window, a protection against damage in shipment. Hinge may be adjusted by regulating two substantial bolts.

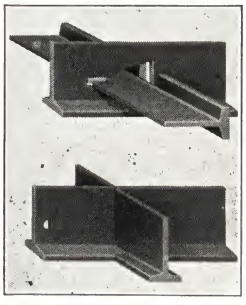
Use wrought iron or hot dip galvanized on steel, or even hot dip galvanized on wrought iron where excessive corrosion hazards exist. Much of the above directly refers to horizontal pivoted windows. Slight modifications cover other methods of ventilating, including vertically center pivoted, bottom and top pivoted, and camber and semi-circular units. Double glazing, underwriters labelled units, and vertical and horizontal mullions apply alike to all windows mentioned in this paragraph.

For Underwriters and Double Glazed Pivoted Windows See Page 19

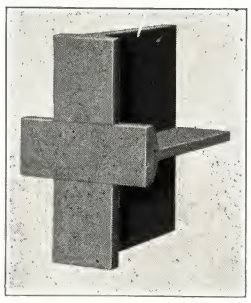
PIVOTED WINDOW WITH LOCK BAR

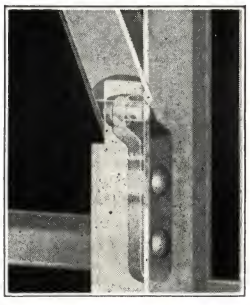
HARDWARE

For industrial windows is Bayley design and manufacture. Heavy pressed steel and Malleable iron is generally used. Cams are cast malleable. Center pivoted ventilators may have lock bars, catch and chain, corner cams with push bar, or chain cams.

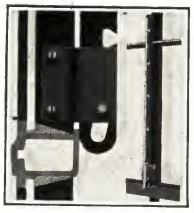


INTERSECTION OF INTERIOR BARS



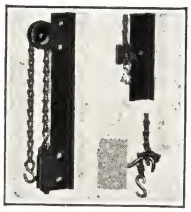


CONCEALED HINGE

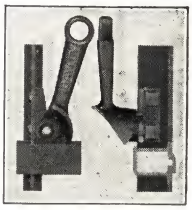


LOCK BAR F

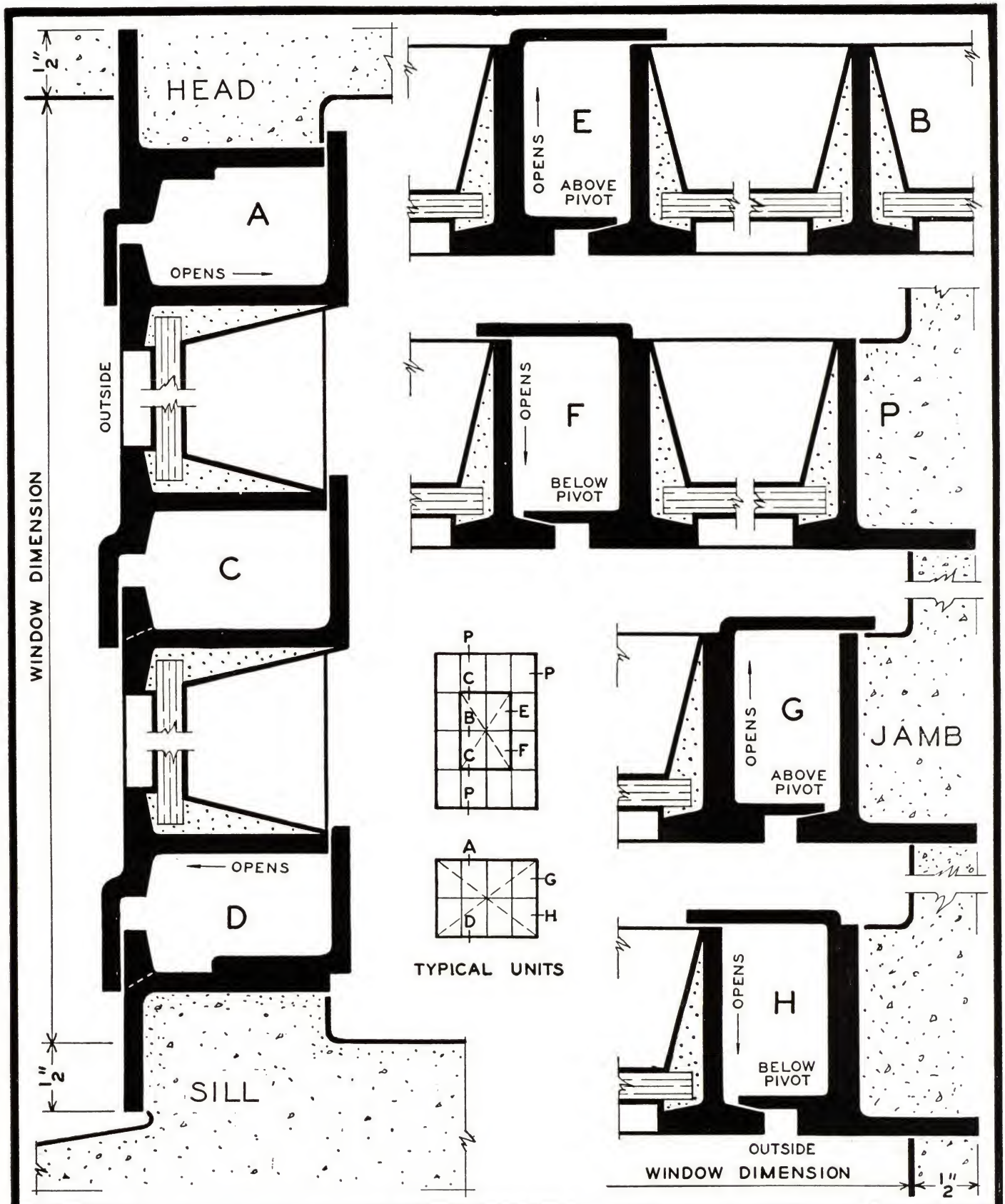
CAM H



CHAIN SET N

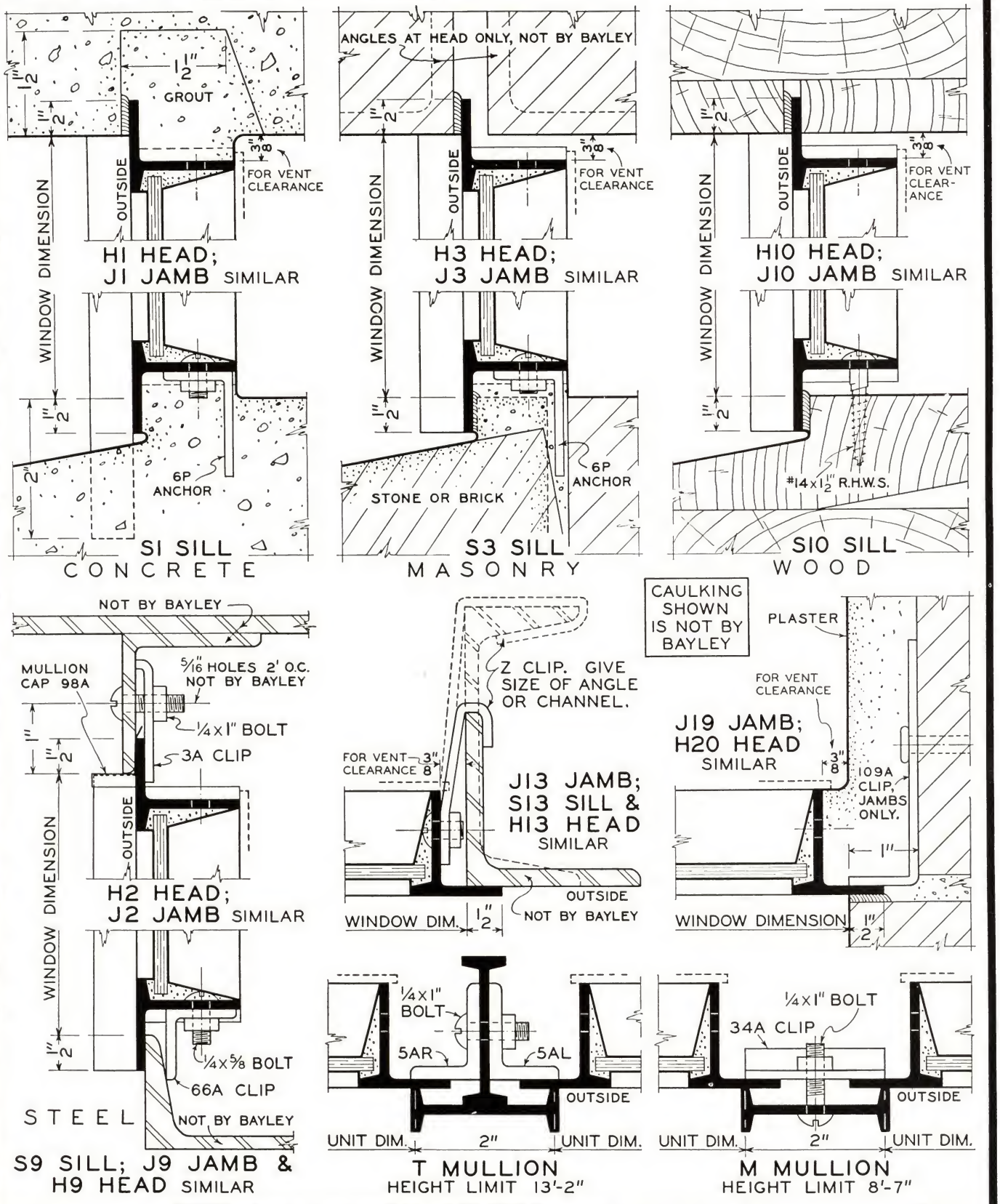


CAM H15



HORIZONTALLY PIVOTED WINDOWS 240

THE WILLIAM BAYLEY CO. SPRINGFIELD, OHIO. FULL SIZE

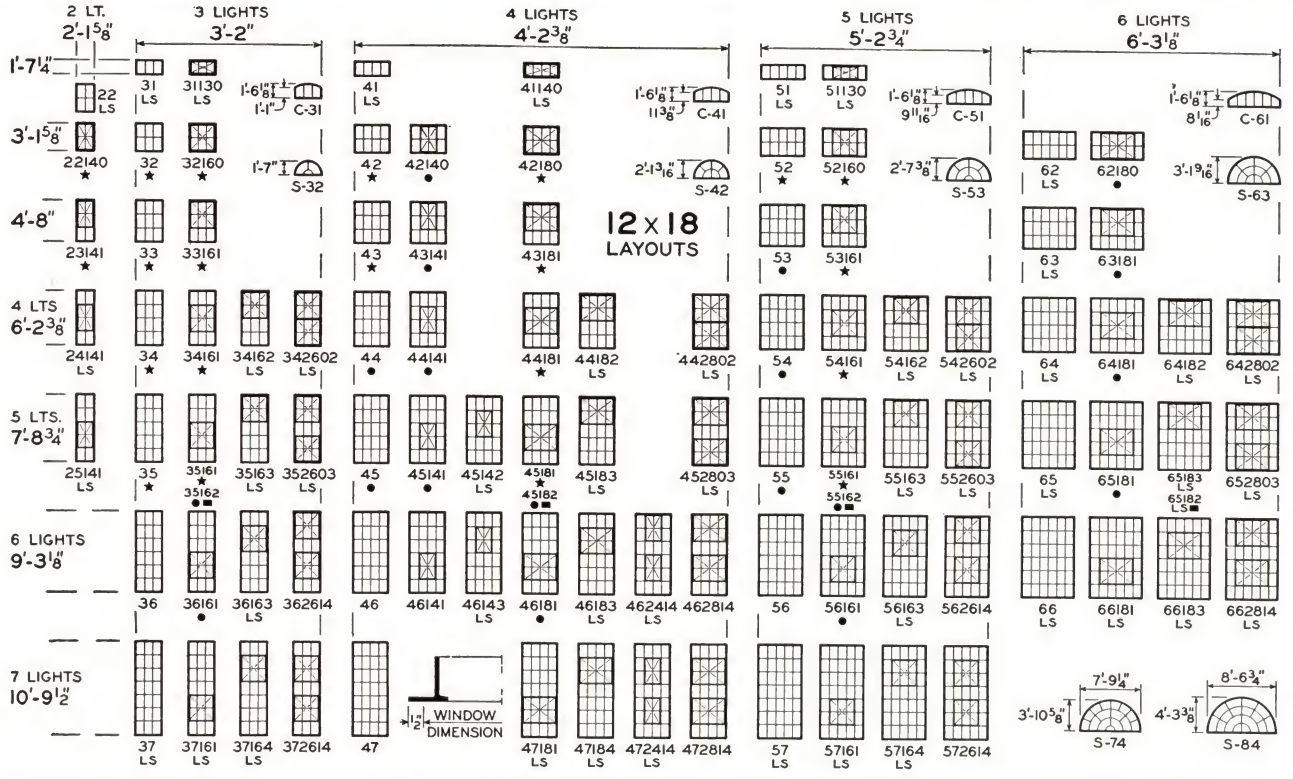


INSTALLATION DETAILS

THE WILLIAM BAYLEY CO. SPRINGFIELD, OHIO.

330
HALF SIZE

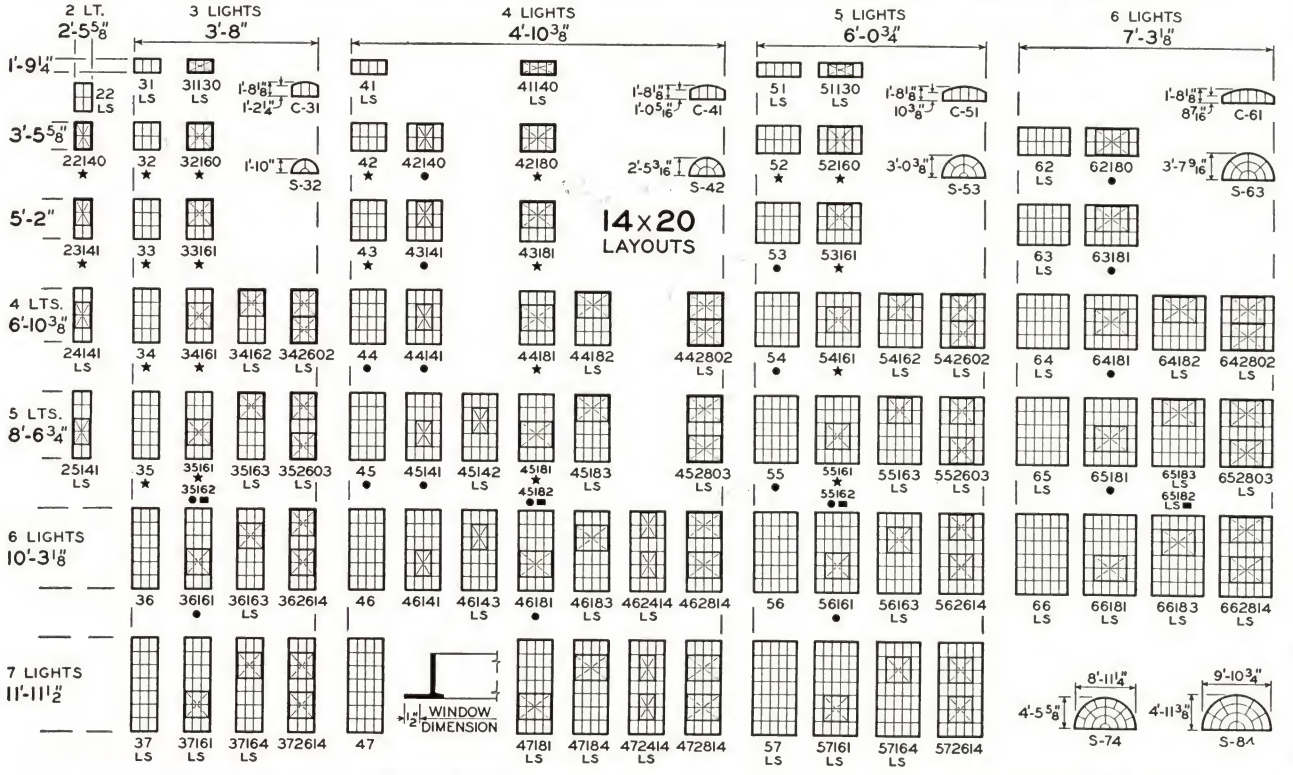
This Plate Applies to Pivoted Windows, Pivoted Windows Screened, and Projected Windows Commercial



★ = STOCKED AT WAREHOUSE;
● = PARTS STOCKED AT FACTORY;
UNMARKED = STANDARDS; LS = LISTED SPECIALS.
■ = VENT LOCATED TWO LIGHTS UP FROM SILL.

SEMI-CIRCULAR UNIT RADIUS = 1/2 WIDTH; CAMBER HEAD RADIUS = WIDTH. UNITS S-74 & S-84 REQUIRE HORIZONTAL MULLION BELOW; ALL OTHER SEMI-CIRCULAR AND CAMBER HEAD UNITS MAY BE ATTACHED DIRECT TO UNITS BELOW (SEE DETAIL F3 WITH MULLION ILLUSTRATIONS).

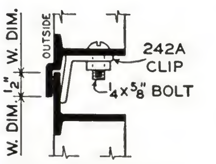
GLASS SIZES GIVEN ARE FOR FIXED PORTION. GLASS IN VENTS AT EDGES (TOP, BOTTOM, AND BOTH SIDES) MUST BE TRIMMED ONE INCH.



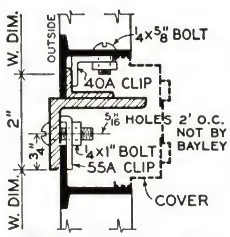
HORIZONTALLY PIVOTED WINDOWS 331

THE WILLIAM BAYLEY CO. SPRINGFIELD, OHIO.

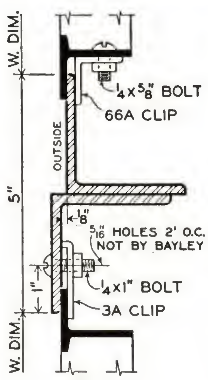
The Above Layouts Also Apply to Pivoted Windows Screened, Shown on Pages 8 and 9



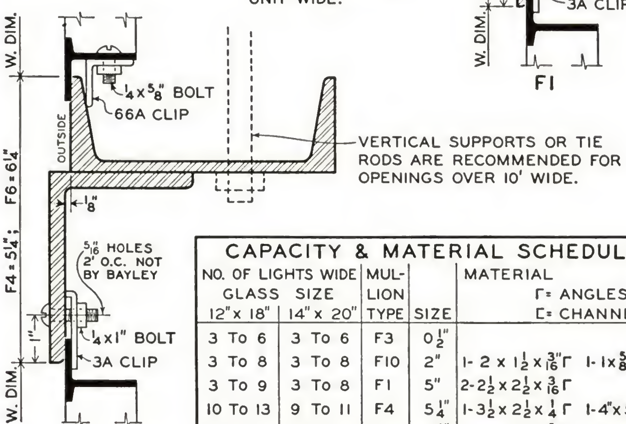
F3 DIRECT ATTACHMENT. FOR SEMI-CIRCULAR AND CAMBER HEAD UNITS, EXCEPT S74 & S84 WHICH REQUIRE F1 (OR F10 IN HEAVIER DESIGN).



F10 WITHOUT COVER
F22 WITH COVER
FOR WINDOWS ONE UNIT WIDE.



F1

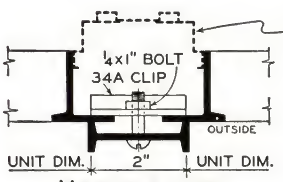


F4, F6

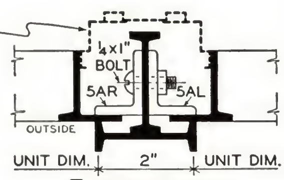
CAPACITY & MATERIAL SCHEDULE				
NO. OF LIGHTS WIDE GLASS SIZE 12" x 18"	14" x 20"	MULLION TYPE	SIZE	MATERIAL ⌈= ANGLES ⊏= CHANNELS
3 To 6	3 To 6	F3	0 1/2"	
3 To 8	3 To 8	F10	2"	1- 2 x 1 1/2 x 3/16" ⌈ 1- 1 x 5/8 x 1/8" ⌈
3 To 9	3 To 8	F1	5"	2- 2 1/2 x 2 1/2 x 3/16 ⌈
10 To 13	9 To 11	F4	5 1/4"	1- 3 1/2 x 2 1/2 x 1/4 ⌈ 1- 4" x 5.4# ⊏
14 To 18	12 To 16	F6	6 1/4"	1- 4 x 3 x 5/16 ⌈ 1- 6 x 8.2 ⊏

HORIZONTAL MULLIONS

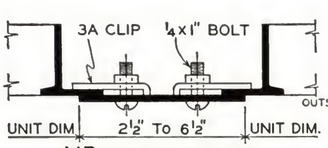
SHOULD EXTEND 4" INTO EACH MASONRY JAMB FOR ANCHORAGE



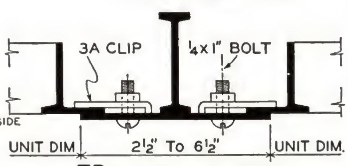
M WITHOUT COVER
M22 WITH COVER
HEIGHT LIMIT 8'-6"



T WITHOUT COVER
T22 WITH COVER
HEIGHT LIMIT 13'-2"

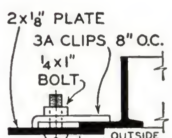


MP HEIGHT LIMIT 8'-6"

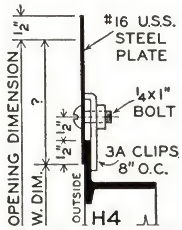


TP HEIGHT LIMIT 13'-2"

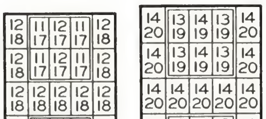
VERTICAL MULLIONS



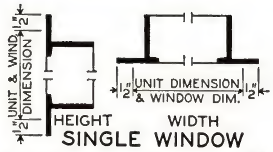
J4
JAMB PLATE



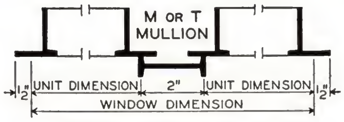
CAMBER PLATE



12"x18" AND 14"x20" GLASS OCCUR ONLY IN FIXED PORTION. GLASS IN VENTS AT EDGES (TOP, BOTTOM, & BOTH SIDES) MUST BE TRIMMED ONE INCH.



SINGLE WINDOW



MULTIPLE WINDOW WIDTH

Combine 12" widths with 18" heights, & 14" widths with 20" heights.

12"x18" Glass	14"x20" Glass	No. of Lights	Arrangement of Units	No. of Units	No. of 2" Mullions
SINGLE WINDOW HEIGHTS					
1' 7 1/4"	1' 9 1/4"	1		1	
3' 1 5/8"	3' 5 5/8"	2		1	
4' 8"	5' 2"	3		1	
6' 2 3/8"	6' 10 3/8"	4		1	
7' 8 3/4"	8' 6 3/4"	5		1	
9' 3 1/8"	10' 3 1/8"	6		1	
10' 9 1/2"	11' 11 1/2"	7		1	
SINGLE WINDOW WIDTHS					
1' 1 1/4"	1' 3 1/4"	1		1	
2' 1 5/8"	2' 5 5/8"	2		1	
3' 2"	3' 8"	3		1	
4' 2 3/8"	4' 10 3/8"	4		1	
5' 2 3/4"	6' 0 3/4"	5		1	
6' 3 1/8"	7' 3 1/8"	6		1	
MULTIPLE WINDOW WIDTHS					
4' 5 1/4"	5' 1 1/4"	4	2-2	2	1
6' 6"	7' 6"	6	3-3	2	1
7' 6 3/8"	8' 8 3/8"	7	4-3	2	1
7' 9 1/4"	8' 11 1/4"	7	2-3-2	3	2
8' 6 3/4"	9' 10 3/4"	8	4-4	2	1
8' 9 5/8"	10' 1 5/8"	8	3-2-3	3	2
9' 10"	11' 4"	9	3-3-3	3	2
10' 7 1/2"	12' 3 1/2"	10	5-5	2	1
10' 10 3/8"	12' 6 3/8"	10	3-4-3	3	2
11' 10 3/4"	13' 8 3/4"	11	3-5-3	3	2
11' 10 3/4"	13' 8 3/4"	11	4-3-4	3	2
12' 8 1/4"	14' 8 1/4"	12	6-6	2	1
12' 11 1/8"	14' 11 1/8"	12	4-4-4	3	2
13' 2"	15' 2"	12	3-3-3-3	4	3
13' 11 1/2"	16' 1 1/2"	13	4-5-4	3	2
13' 11 1/2"	16' 1 1/2"	13	5-3-5	3	2
14' 11 7/8"	17' 3 7/8"	14	4-6-4	3	2
14' 11 7/8"	17' 3 7/8"	14	5-4-5	3	2
15' 2 3/4"	17' 6 3/4"	14	3-4-4-3	4	3
16' 0 1/4"	18' 6 1/4"	15	5-5-5	3	2
16' 0 1/4"	18' 6 1/4"	15	6-3-6	3	2
16' 6"	19' 0"	15	3-3-3-3-3	5	4
17' 0 5/8"	19' 8 5/8"	16	5-6-5	3	2
17' 0 5/8"	19' 8 5/8"	16	6-4-6	3	2
17' 3 1/2"	19' 11 1/2"	16	4-4-4-4	4	3
17' 3 1/2"	19' 11 1/2"	16	3-5-5-3	4	3
17' 6 3/8"	20' 2 3/8"	16	3-3-4-3-3	5	4
18' 1"	20' 11"	17	6-5-6	3	2
18' 6 3/4"	21' 4 3/4"	17	3-4-3-4-3	5	4
19' 1 3/8"	22' 1 3/8"	18	6-6-6	3	2
19' 4 1/4"	22' 4 1/4"	18	4-5-5-4	4	3
19' 7 1/8"	22' 7 1/8"	18	3-4-4-4-3	5	4
20' 7 1/2"	23' 9 1/2"	19	4-4-3-4-4	5	4
20' 7 1/2"	23' 9 1/2"	19	3-5-3-5-3	5	4
21' 5"	24' 9"	20	5-5-5-5	4	3
21' 5"	24' 9"	20	4-6-6-4	4	3
21' 7 7/8"	24' 11 7/8"	20	4-4-4-4-4	5	4
22' 8 1/4"	26' 2 1/4"	21	3-5-5-5-3	5	4
22' 8 1/4"	26' 2 1/4"	21	4-4-5-4-4	5	4
23' 5 3/4"	27' 1 3/4"	22	5-6-6-5	4	3
23' 8 5/8"	27' 4 5/8"	22	4-5-4-5-4	5	4
23' 11 1/2"	27' 7 1/2"	22	3-4-4-4-4-3	6	5
24' 9"	28' 7"	23	4-5-5-5-4	5	4
25' 6 1/2"	29' 6 1/2"	24	6-6-6-6	4	3
25' 9 3/8"	29' 9 3/8"	24	5-5-4-5-5	5	4

MULLIONS, PLATES, & MULTIPLE WINDOWS 329

THE WILLIAM BAYLEY CO. SPRINGFIELD, OHIO.

This Plate Applies to Pivoted Windows, Pivoted Windows Screened, and Projected Windows Commercial

BAYLEY PIVOTED WINDOWS Screened

FOR buildings requiring screen protection in addition to the advantages of pivoted windows. Bayley Pivoted Windows—Screened completely protect materials and processes in all kinds of manufacturing and distributing plants. They should not be confused with ordinary pivoted windows to which screens have been attached as an afterthought. This exclusive Bayley development is backed by thousands of successful installations for many particular owners. These windows are widely used in power houses, chemical plants, tanneries, textile mills and printing plants where protection to materials or machinery is desirable; also in bakeries, packing houses, restaurants, candy factories, hotel kitchens, dairies and other buildings where foods are prepared.

Pivoted
Window Screened Assembly

Materials and Features

This product is made with ventilators having industrial sections, (plate No. 292) available in steel or wrought iron, or Series 30 casement sections, (plate No. 313) available in steel. Both products may be hot dip galvanized. Ventilators and screens are built together but screens are removable.

STANDARD LAYOUTS AND SIZES are 12 x 18 and 14 x 20 inches. Opening dimensions match those of pivoted windows. Refer to Page 6 (Plate 331) for layouts except for one light high, where commercial projected in screened should be used.

SECTIONS duplicate those of standard pivoted windows except some are exclusive to this product. Horizontal muntin bar of ventilator is 1-13/16 inches deep and is shaped to provide continuous close fitting screen contacts, with ventilator in any position.

PIVOTS exclusive to this product are located at exact center of ventilator.

FRICTION ADJUSTERS of non-corrosive metal hold ventilator securely in any position. They are attached within the weathering at each side, properly adjusted in manufacture and protected during shipment and erection.

POLE CATCH H112 IS OF MALLEABLE IRON in cadmium plated finish. Cam H113, optional.

SCREENS made by the William Bayley Co. are an integral part of window. They have solid steel frames in hot dip galvanized finish. Bronze screen cloth, 16 mesh, is standard. Screens are interchangeable and easily removed from inside for cleaning windows or for winter storage. Rewiring may be done by any mechanic without special tools.

GLAZING is with putty. Industrial section windows, glazed inside; series 30 glazed outside. Double glazing is an exclusive feature which may be specified in this as in other Bayley products. It is specially desirable where uniform temperature and humidity is necessary and where fuel saving is considered.

Ohio Edison Co. Mad River Plant

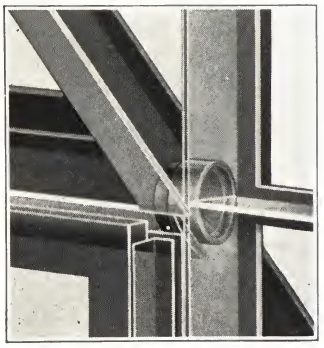
One dip coat of standard red oxide paint is applied to steel before shipment.

MECHANICAL OPERATORS of either manual or electric control may be used for ventilators in long lines and those out of reach.

Bayley Pivoted Windows Screened keep out swarms of insects attracted by brilliantly lighted interiors of power houses, water works, and other plants engaged in day and night operation. Sensitive electrical equipment as well as intricate processes of water purification must have screen protection in order that public service may not be interrupted.

Pole Catch H 112

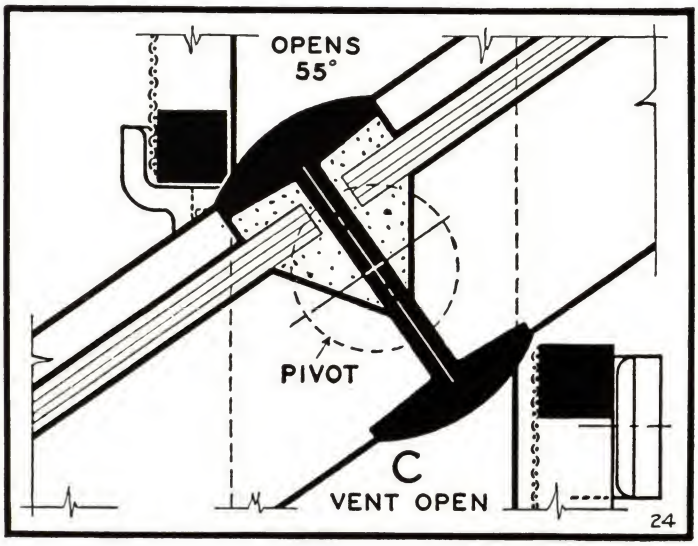
Three Rivers Filtration and Pumping Station, Ft. Wayne, Indiana

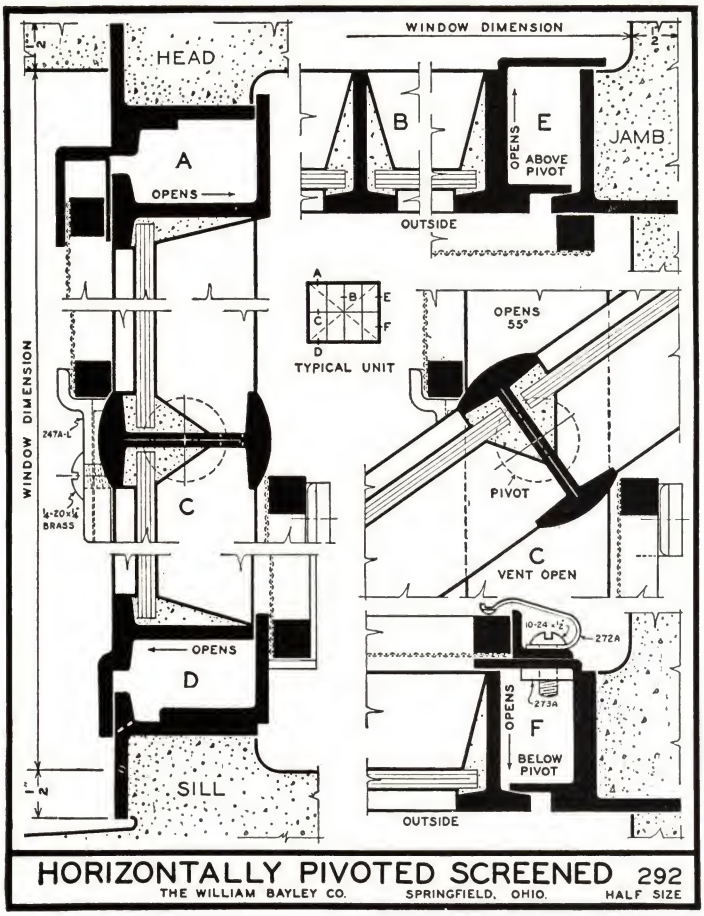


Center Rail and Pivot

BAYLEY PIVOTED WINDOWS Screened INDUSTRIAL SECTIONS — GLAZED INSIDE—(Patented)

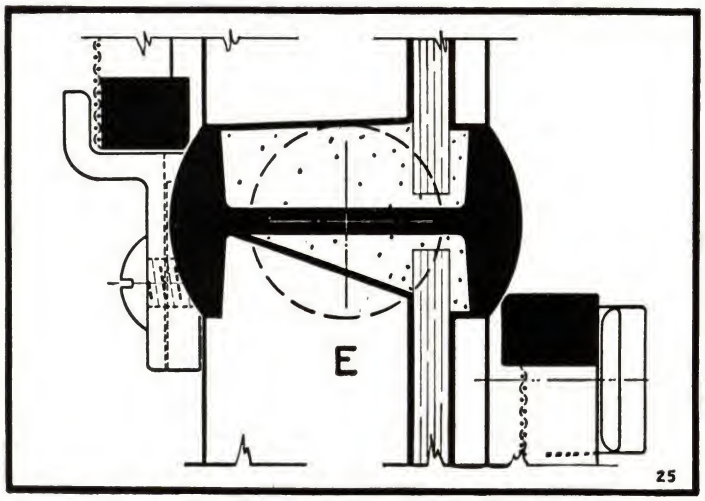
Bayley center rail contact and pivot arrangement with Fixed Flat screens is the key to these special "keep out insects" center pivoted ventilators. Illustrations show ventilators in the open and closed positions with horizontal screen frame members always in contact with curved center rail and the perimeter of the opening.

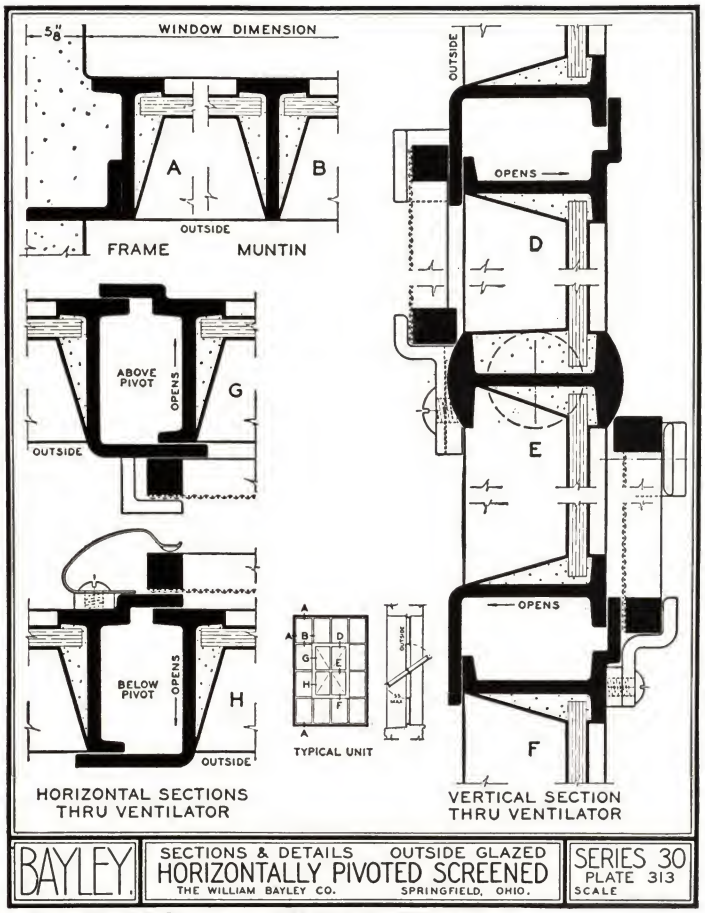




BAYLEY PIVOTED WINDOWS Screened SERIES 30 CASEMENT SECTIONS GLAZED OUTSIDE—(Patented)

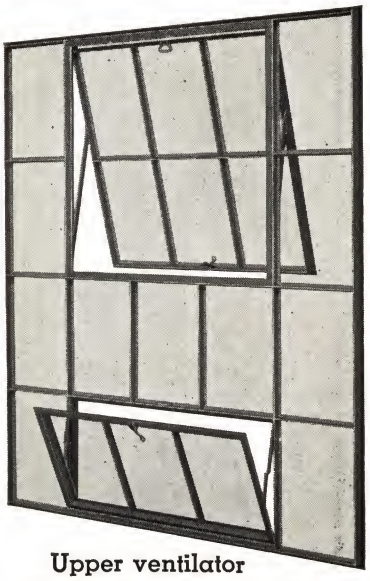
The application of Series 30 casement sections to pivoted ventilators is another long step forward by Bayley. This product has sections ⅛" thick and carries casement workmanship which assure better weathering and permanency since the complete window unit is most rigid and less subject to corrosion.





See Pages 5, 6 and 7 for Layouts, Installation Details, Mullions and Multiple Windows.

BAYLEY PROJECTED WINDOWS Commercial Screened



Upper ventilator projected out, screen inside

Lower ventilator projected in, screen outside

BAYLEY PROJECTED WINDOWS COMMERCIAL Screened, Inside Glazed (Plate 223) are designed for garages, lofts, storage and industrial buildings; Outside Glazed (Plates 333 and 334) for schools, offices and better commercial buildings.

Materials and Features

The windows are manufactured in steel, or wrought iron and may also be hot dip galvanized.

INDUSTRIAL SECTIONS $1\frac{1}{2}$" and $1\frac{5}{8}$" deep arranged for inside putty glazing or for outside glazing upon request.

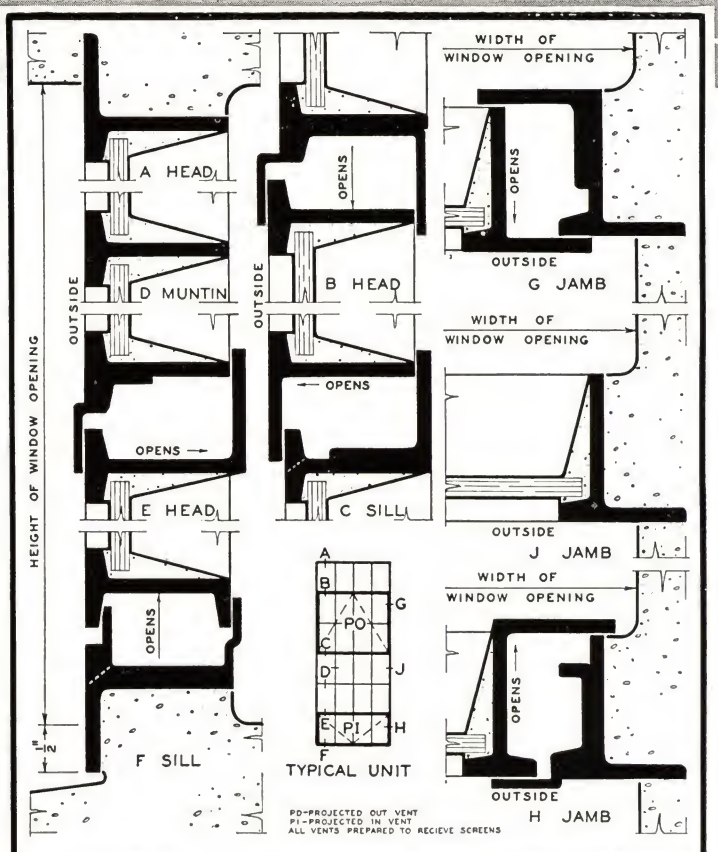
LAYOUTS are for basic glass sizes 12x18" and 14x20". Opening dimensions match those of pivoted windows.

VENTILATORS and openings for ventilators have corners coped, tenoned and riveted, and welded where necessary for strength. Ventilators balance on heavy steel friction arms with friction increasing as the movement nears the closing point. They slide on bronze pivots; at top when projected out, and at bottom when projected in.

Awning-like protection during showers is a feature. Outside washing can be done from the inside when ventilators are open.

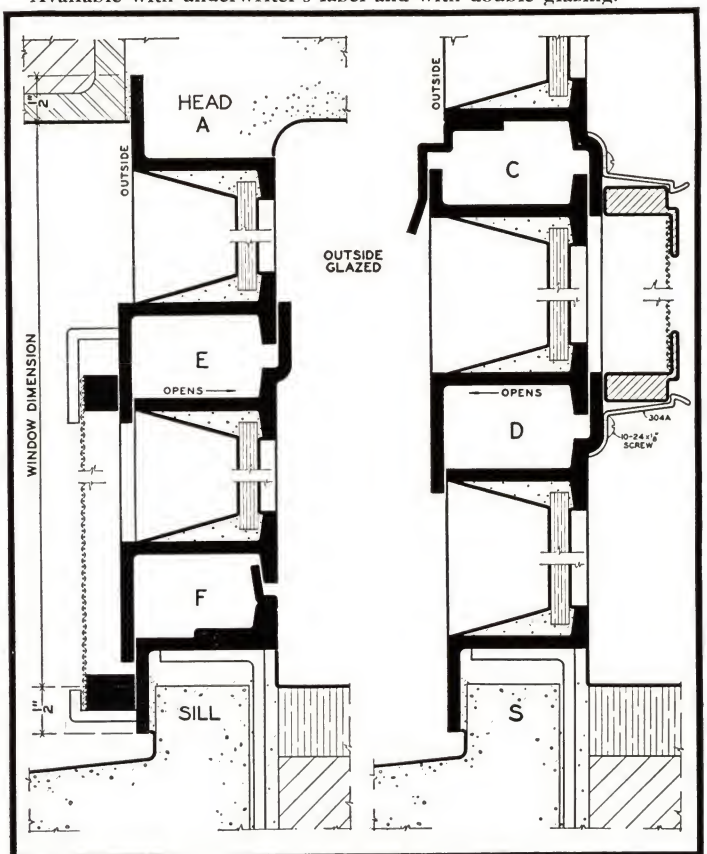
SCREENS fit flat against weathering. Bayley's section depth provides for secure attachment of hardware and its coverage by screens. All windows are prepared to receive screens $\frac{3}{8}$" thick.

Available with underwriter's label and with double glazing.

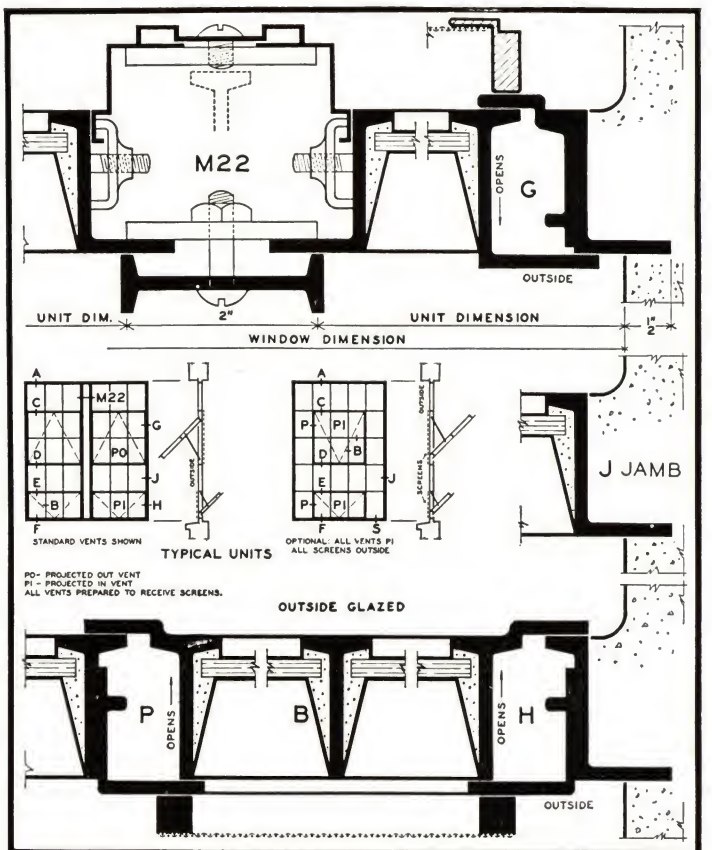


COMMERCIAL PROJECTED WINDOWS 223
THE WILLIAM BAYLEY CO. SPRINGFIELD, OHIO. HALF SIZE

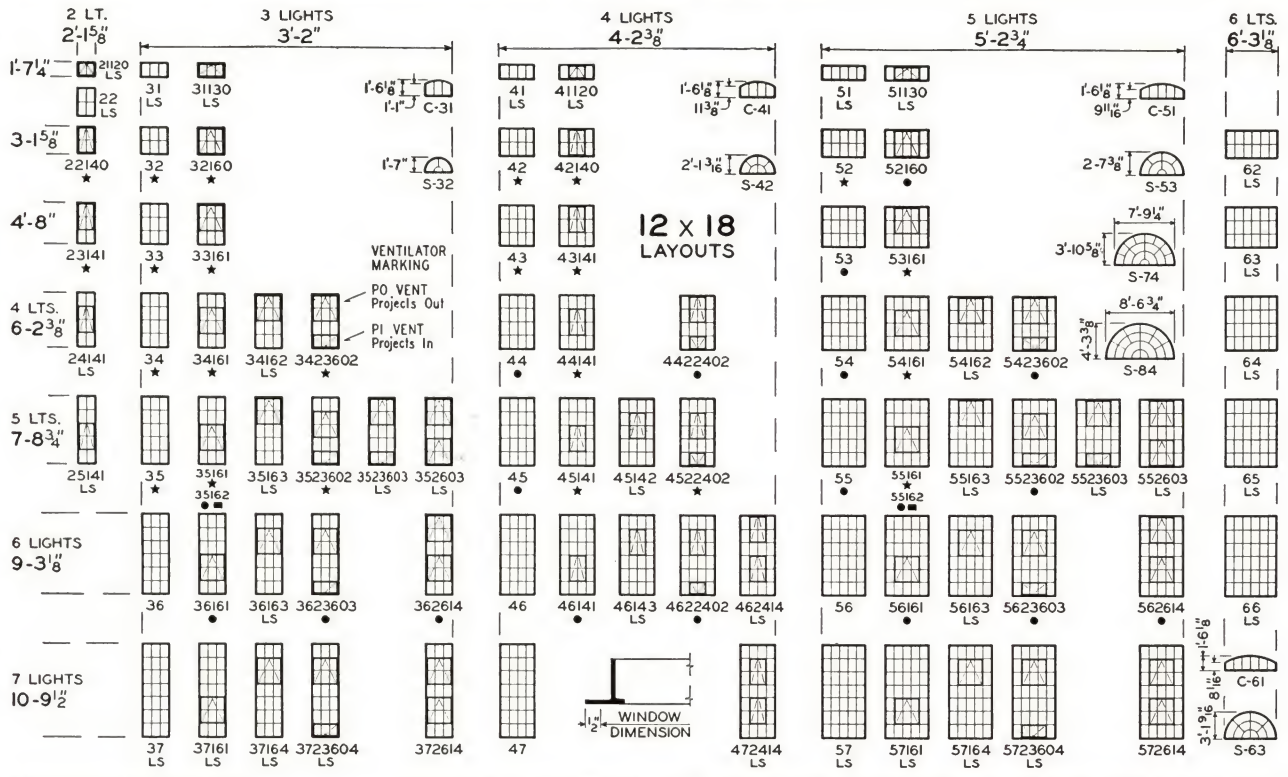
Hardware for Commercial & Architectural Projected is the same design



COMMERCIAL PROJECTED WINDOWS 333
THE WILLIAM BAYLEY CO. SPRINGFIELD, OHIO. HALF SIZE



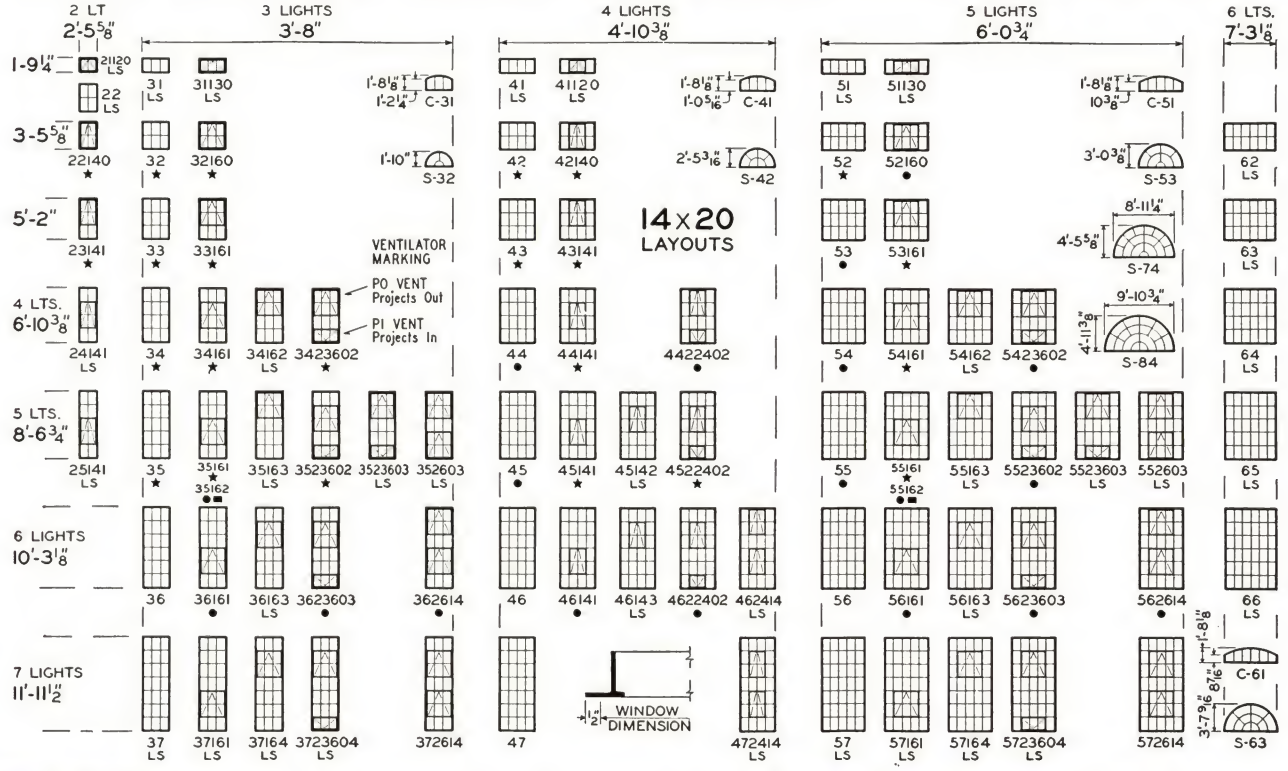
COMMERCIAL PROJECTED WINDOWS 334
THE WILLIAM BAYLEY CO. SPRINGFIELD, OHIO HALF SIZE



★ = STOCKED AT WAREHOUSE;
● = PARTS STOCKED AT FACTORY;
UNMARKED = STANDARDS; LS = LISTED SPECIALS.
■ = VENT LOCATED TWO LIGHTS UP FROM SILL.

SEMI-CIRCULAR UNIT RADIUS = 1/2 WIDTH, CAMBER HEAD RADIUS = WIDTH. UNITS S-74 & S-84 REQUIRE HORIZONTAL MULLION BELOW; ALL OTHER SEMI-CIRCULAR AND CAMBER HEAD UNITS MAY BE ATTACHED DIRECT TO UNITS BELOW (SEE DETAIL F3 WITH MULLION ILLUSTRATIONS).

GLASS SIZES GIVEN ARE FOR FIXED PORTION. GLASS IN VENTS AT EDGES (TOP, BOTTOM, AND BOTH SIDES) MUST BE TRIMMED ONE INCH.

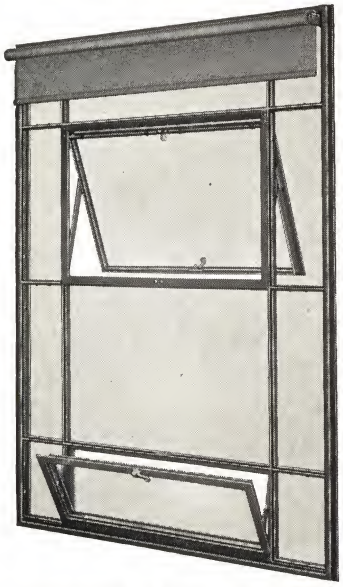


COMMERCIAL PROJECTED WINDOWS 332

THE WILLIAM BAYLEY CO. SPRINGFIELD, OHIO

Layouts Show Standard Projected Out and Projected In Ventilation. Windows Having All Ventilators Projected In May Be Furnished If Specified *(Not Stocked at Warehouse).* **See Pages 5 and 7 for Installation Details and Mullions**

BAYLEY PROJECTED WINDOWS Architectural Screened



Projected Out Ventilator above permits use of screens and shades without interference

Projected In Ventilator below controls ventilation

Materials and Features

The windows are manufactured in steel, or steel hot dip galvanized.

Ventilator sections, welding, weathering, and working parts are similar to those used in commercial projected but workmanship is stepped up for this more finished window.

SECTIONS 1½" and 1⅝" deep enclosed within an outside frame of extra heavy deep flanged channel welded at corners. This increased width stiffens the product and improves appearance.

GLAZING is inside with bed putty and steel beads, or with putty, and outside with putty when requested.

HARDWARE is of heavy pressed steel, cast malleable and bronze. The cam so often found on Bayley windows is the most effective draw-up-tight attachment. As in all Bayley windows the depth of sections and their shape provides for secure fastening, another outstanding Bayley feature.

SCREENS manufactured by Bayley fit flat against the weathering and cover cam hardware.

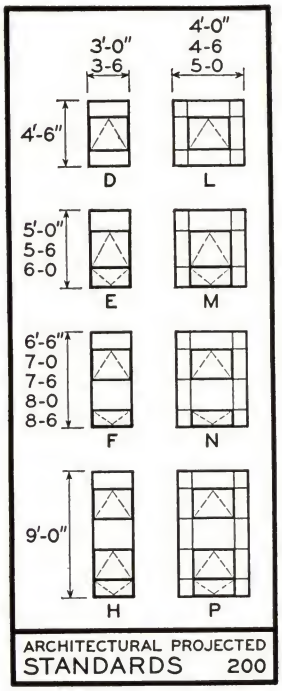
Available with underwriter's label and with double glazing.

Recognizing value, careful designers rate this Bayley window as today's best buy, for they know the sections, workmanship, and trim, place its usefulness equal to that of more expensive products.

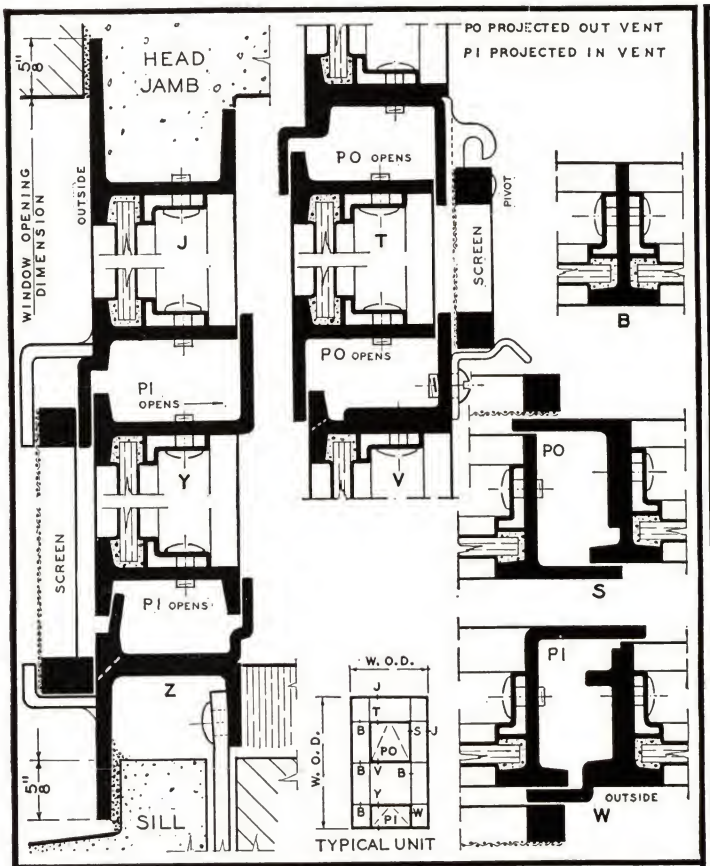
H113 Cam for Projected In Vents Within Reach

H20 Cam for Projected Out Located Within Ventilator Operates Through Sill

H112 Pole Catch for Projected In Vents Out of Reach

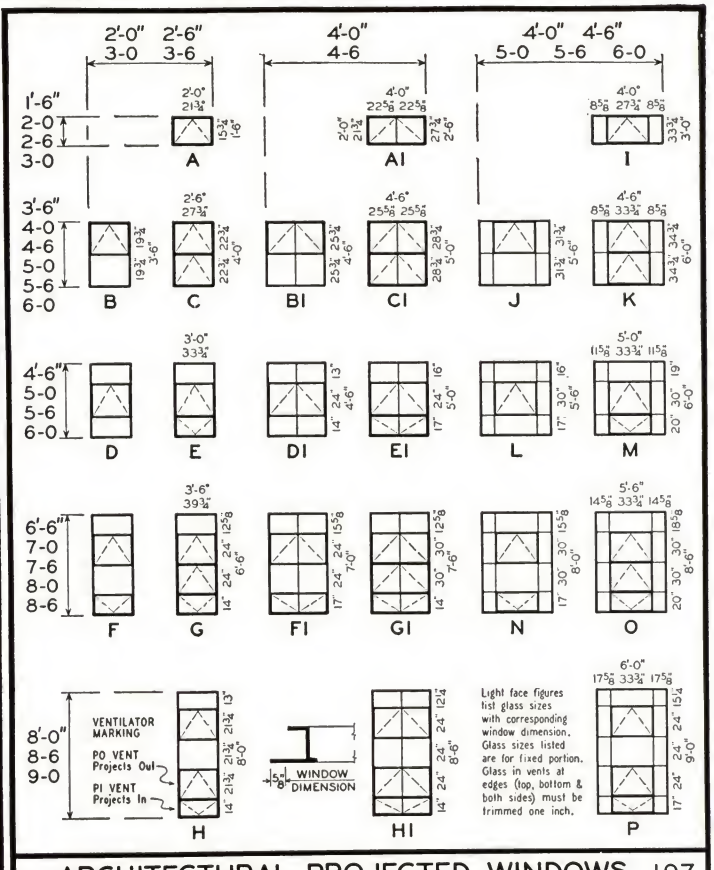


Standard layouts above. Standards and listed specials below.



ARCHITECTURAL PROJECTED WINDOWS 195

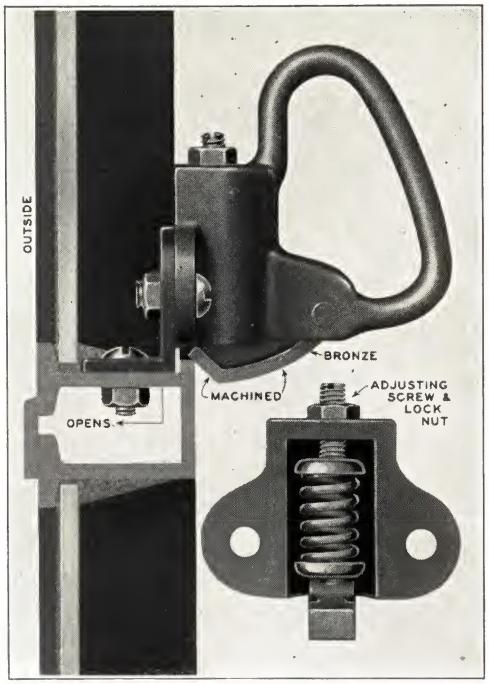
Inside Glazed (Flat Surface Outside).



ARCHITECTURAL PROJECTED WINDOWS 197
THE WILLIAM BAYLEY CO. SPRINGFIELD, OHIO

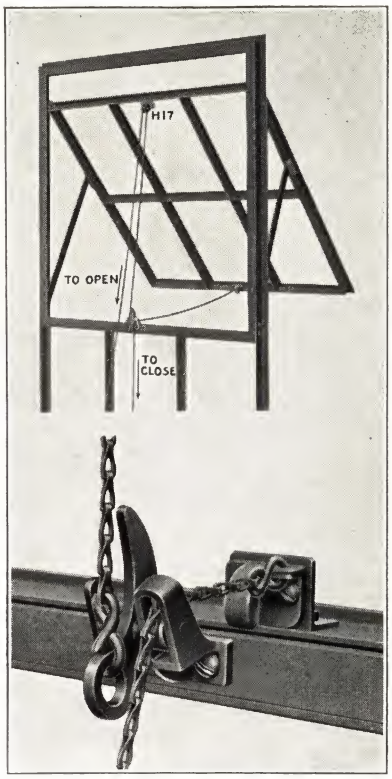
Layouts are for Inside or Outside Glazed.

Bronze handle H126 for Projected Out and **H127** for Projected In ventilators, when windows are glazed from inside. Bronze handle **H128** for Projected Out and **H129** for Projected In ventilators when windows are glazed from outside.

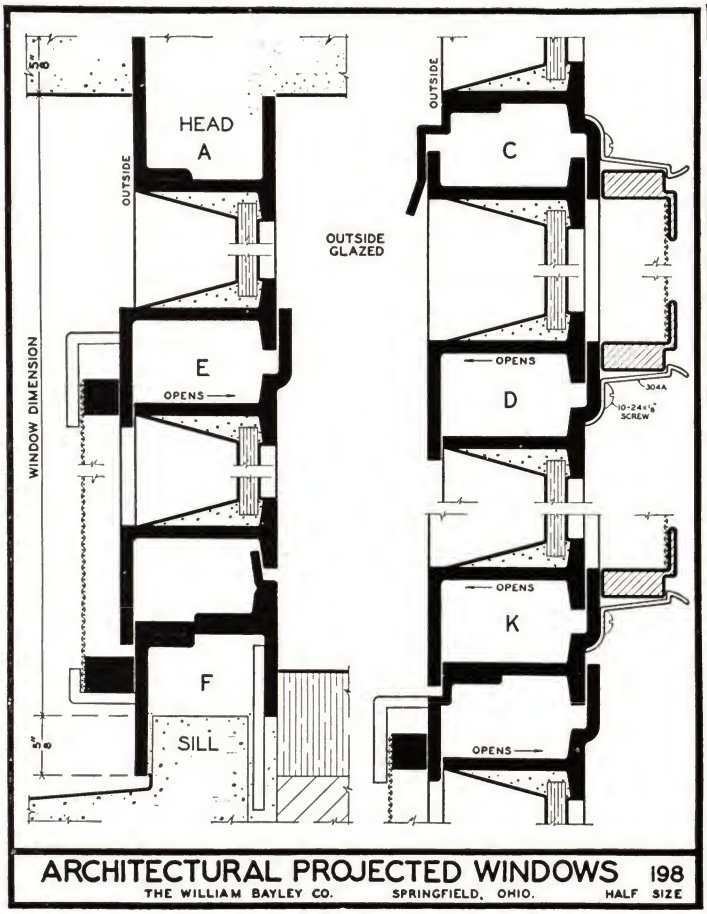


PRESSURE RELEASE LATCH H64

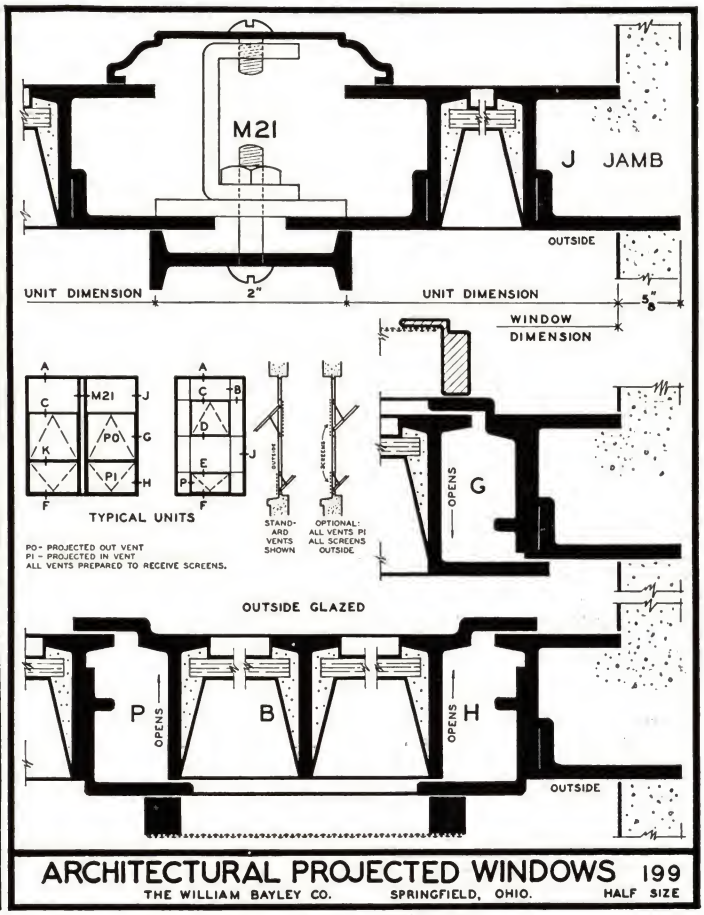
Developed by Bayley for use on Projected Outswinging and also ventilators pivoted horizontally near top, to release ventilators and relieve pressure caused by explosion. May be adjusted to release at any pressure. H64 Pressure Release Latch is approved by the Underwriters' Laboratories Inc., Chicago, and by the Associated Factory Mutual Fire Insurance Companies, Boston, as a means of holding ventilators closed for fire protection and prevention.



Chain Catch H121 for operating Projected Out ventilators which are out of reach of floor. May be chain or pole operated. Mechanical Operators are recommended for groups of ventilators in long lines or when they are high above the floor.



ARCHITECTURAL PROJECTED WINDOWS 198
THE WILLIAM BAYLEY CO. SPRINGFIELD, OHIO. HALF SIZE



ARCHITECTURAL PROJECTED WINDOWS 199
THE WILLIAM BAYLEY CO. SPRINGFIELD, OHIO. HALF SIZE

Plates 198 and 199 Above Show Outside Putty Glazed (Flat Surface Inside)

BAYLEY DETENTION WINDOWS
Screened

Unit Showing Ventilator and Screen

Bayley Detention Windows — Screened — as shown and described on this and the following pages were originated by Bayley. Their adoption by Federal, State, County and Municipal authorities, and the thousands of these windows which have been installed prove the suitability of the design and construction to meet all requirements for such a window.

The use of these windows not only provides absolute protection but discourages tampering with the ventilators since even if they are damaged or completely removed the detention value of the window is in no way lessened. It is the only detention window wherein the factor of security remains constant irrespective of the location or number of ventilators used.

These Detention Windows consist of three parts namely: the grille for detention, the ventilator and the screen. The construction and assembly of these parts is described as follows:

THE GRILLE FOR DETENTION — Note in the illustration that the grille is composed of horizontal and vertical bars continuous between jambs and from head to sill, interlocked mechanically, and in addition, deep welded at these intersections and ends. Bars are shaped and spaced to provide for the insertion of glass approximately six inches by nine inches with outside putty glazing in all spaces except those to be covered by ventilators. Welding is ground only where necessary to provide a smooth surface for ventilator attachment.

THE VENTILATOR — One or more ventilators are *superimposed* on each grille. Each ventilator is a frame and movable section fabricated separate from the grille and complete within itself. Bayley Series 30 casement sections, 1⅝" deep, provide stiffness to withstand rough usage, double flat weathering contacts and space for glass sometimes as large as one light to the ventilator. Corners are mitred and butt welded. The movable section with hardware is attached to the frame which is later bolted or welded to the grille. Ventilators which swing in at the top from heavy hinges welded to bottom corners of frame and ventilator are standard construction and are recommended. The less rigid projected in movement may be substituted if desired. Heavy side friction stays 1 x ¼", the minimum essential for prison usage, fold within the weathering.

THE SCREENS — These have solid steel hot galvanized frames butt welded at corners. Bronze wire insect cloth is securely fastened to this frame. Rewiring may be done by any mechanic without special tools. If ventilators are bolted to the detention grille, screens may be placed between the ventilator and the grille. This is Bayley's latest improvement. Screens may also be placed on the outside of the grille.

SECURITY REQUIREMENTS DETERMINE TYPE OF BAR

Penologists usually classify detention as maximum, medium, or minimum. Bayley has followed this lead and by varying the value of the security element — the fixed grille of the guard window — all these requirements may be met. Note especially its value for maximum and medium detention.

Maximum Security Demands Grilles of Super-Bars

Three choices are offered to designers to meet the more serious problems that develop in this division. As shown on Plate 328 opposite page, the fixed grilles may be made of —

1—Bayley super-bar (1¾" deep weighing 2 lb. per lin. ft.) structural grade steel reinforced with continuous non-machined horizontal and vertical members which are tool resisting, interlocked with and welded to the super-bars. This construction combines the highest development of structural strength with tool resisting non-annealable features. It is accepted as affording maximum security.

2—Bayley super-bar having the tool resisting and non-annealable elements rolled directly into the bar. Heavy tonnage and ample time for fabrication is a condition when this special material is specified.

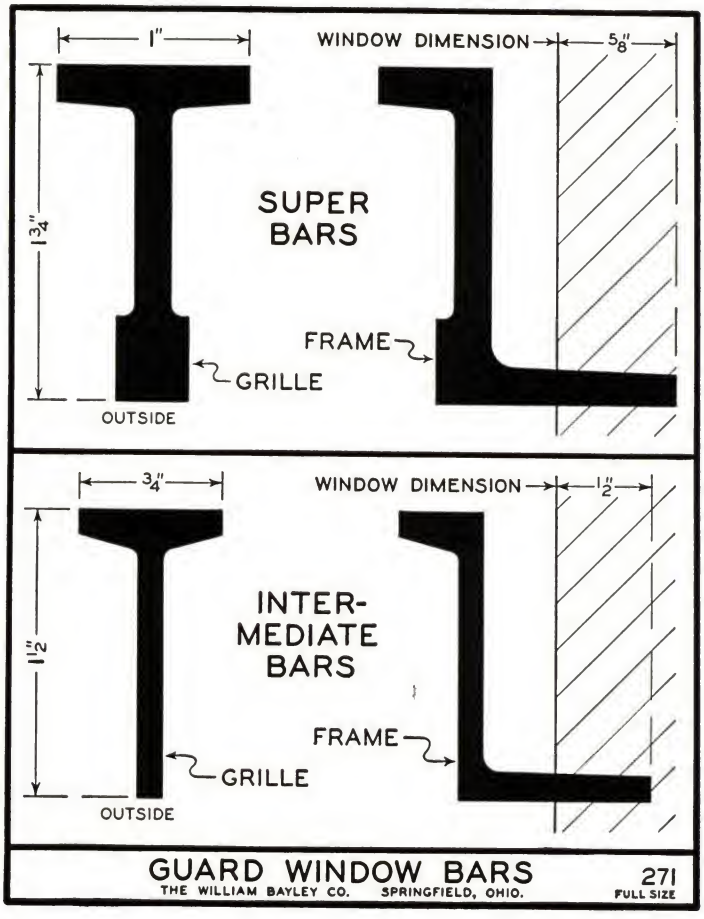
3—Bayley super-bar of structural grade steel may meet normal maximum security requirements where supervision is constant, but it should be understood such material is not tool resisting. This construction is also often used for medium security.

Medium Security Permits Grilles of Intermediate Bars

Bayley's Intermediate Bar Guard of structural grade steel sections 1½" deep weighing 1 lb. per lin. ft., fabricated and welded the same as No. 3 in Super Bar construction, is used when economy is essential. See Plate 271 at right and Plate 269 page 17.

Minimum Security May Be Met in Diversified Ways

Buildings within walled enclosures, and those for the detention of juveniles and of adults without escape urge, may use a window of lesser detention value, and many of the more usual types of solid section windows, modified to meet local requirements, are suitable. There are so many offerings that only those of the economical "Industrial Detention" group are described here. They are modified Horizontally Pivoted, or Projected windows of industrial sections and construction without extra welding, of approximate 6 x 9" glass size, and with ventilators one light high which operate in such manner as to prevent egress through the opening. This product predates Bayley's Guard-Window development.

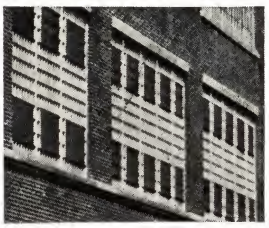


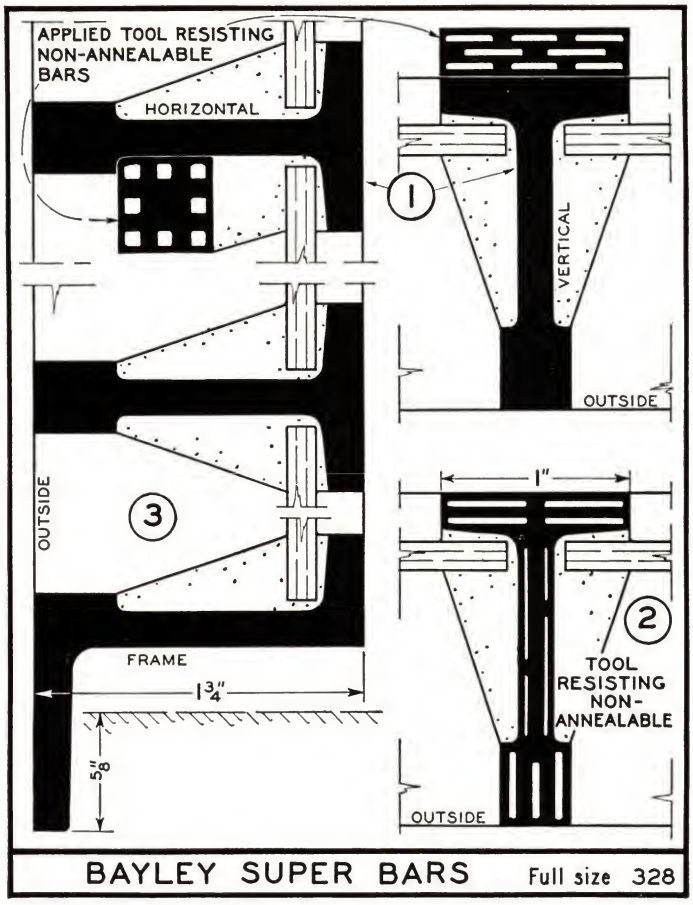
BAYLEY SUPER BAR GUARD-WINDOWS

When it is vital to protect valuable contents against entrance, as in banks, fur and silk storages, bonded warehouses, precious metal shops, etc., Bayley recommends that designers select and specify windows of the great strength and weight of this "Detention" group.

The super-bar guard window is a minimum recommendation for such protection. See photo at left and number 3, plate 328 at right.

Shown below, right.
Federal Detention Headquarters, New York City. Bayley Guard Windows Super Bar Non-annealable





BAYLEY SUPER BARS Full size 328

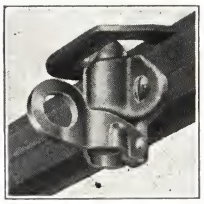
BAYLEY VENTILATORS AND HARDWARE

Guard window construction as offered by Bayley includes two methods of ventilator attachment to either super bar or intermediate bar grilles.

METHOD "A"—Ventilator and its frame welded to the grille in the factory and the two shipped as a complete window. See plate 326, (page 16) and plate 269, (page 17).

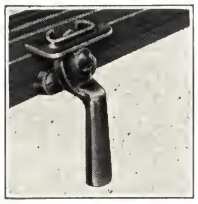
METHOD "B"—Ventilator and its frame fabricated as a unit with provision for later attachment to the grille in the field. See plate 320, below.

Method "B" has the following advantages. (1) Grilles may be shipped in advance of ventilators. (2) Grilles may be bricked in or placed in concrete forms. (3) Ventilators are attached as the building is being finished, thus protecting contacts, hardware and finish. (4) Ventilators may be glazed, painted and hardware attached, separately on trestles on the job under more favorable conditions. Large scale operations already completed have proven the soundness of this Bayley plan of guard window construction.

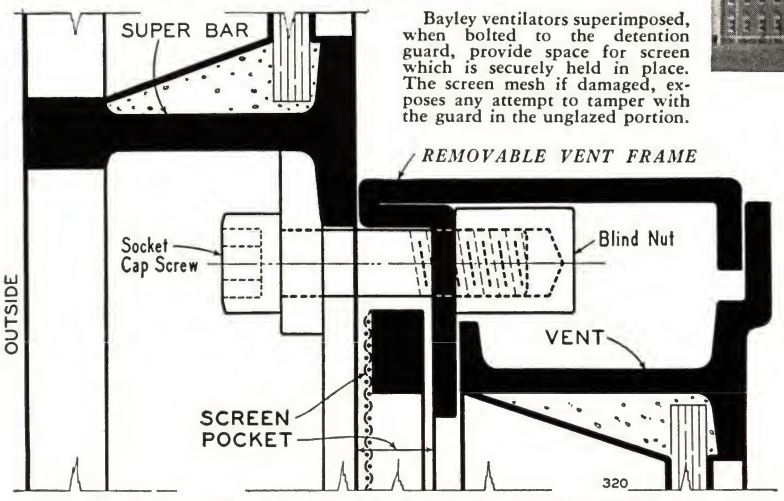


Spring Catch H 106

Hinge Welded to Frame

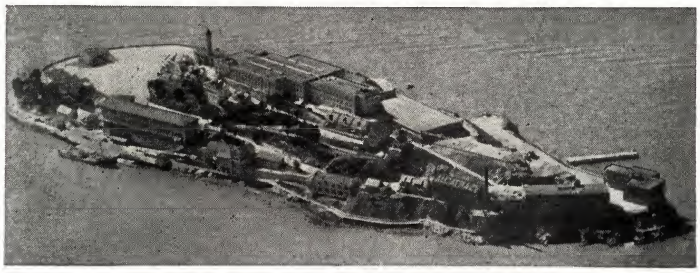


Cam H 82



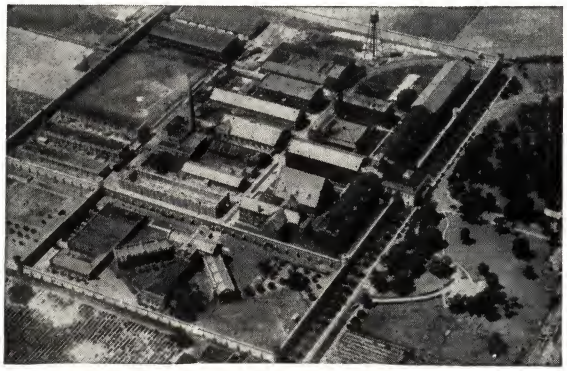
Bayley Super-Bar, Ventilator and Screen assembly. Full size.

Bayley ventilators superimposed, when bolted to the detention guard, provide space for screen which is securely held in place. The screen mesh if damaged, exposes any attempt to tamper with the guard in the unglazed portion.



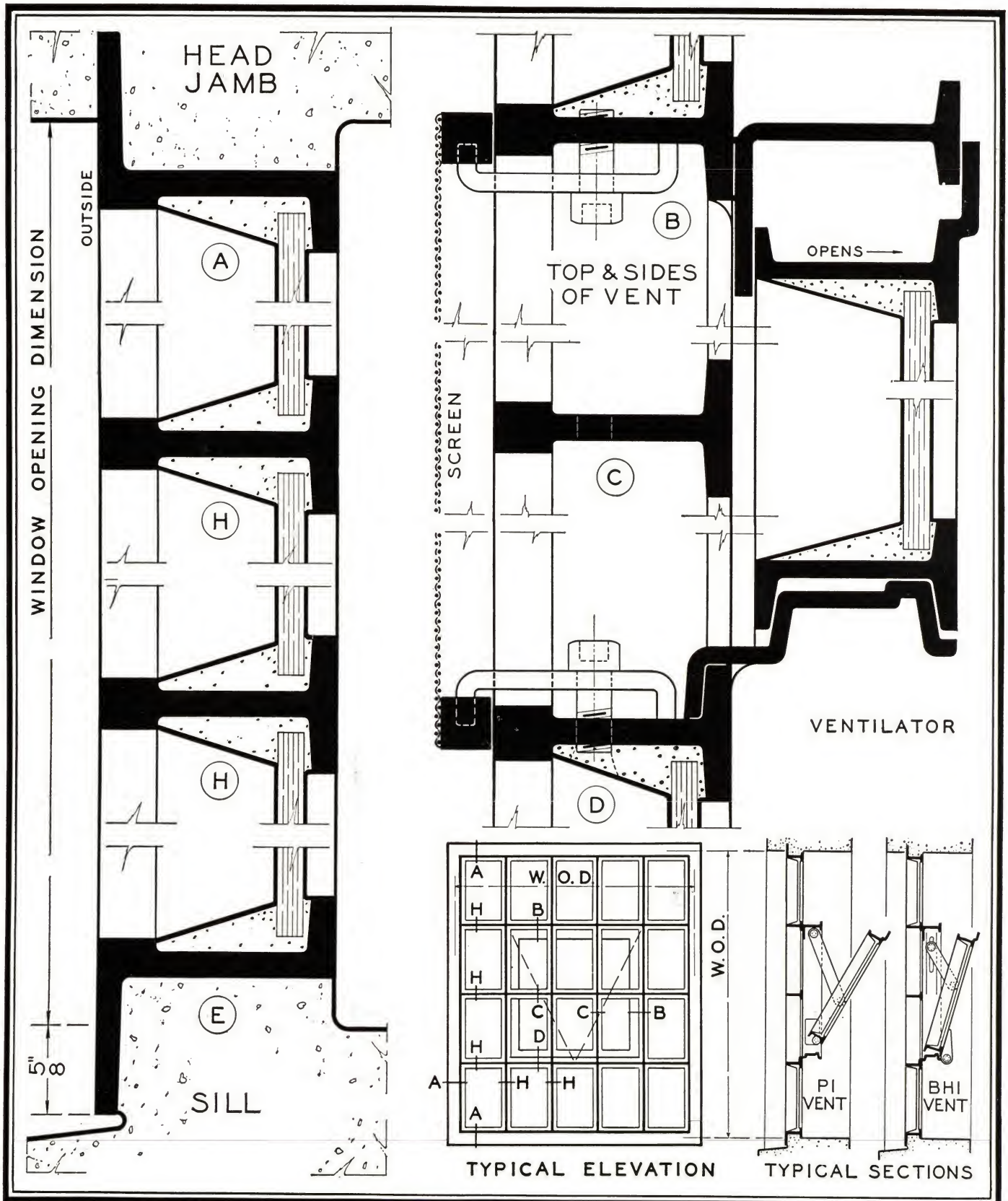
U. S. Penitentiary, Alcatraz Island, California.

Men's Reformatory, Howard, Rhode Island.



Indiana State Prison, Michigan City, Indiana

BAYLEY SUPER BAR GUARD-WINDOWS



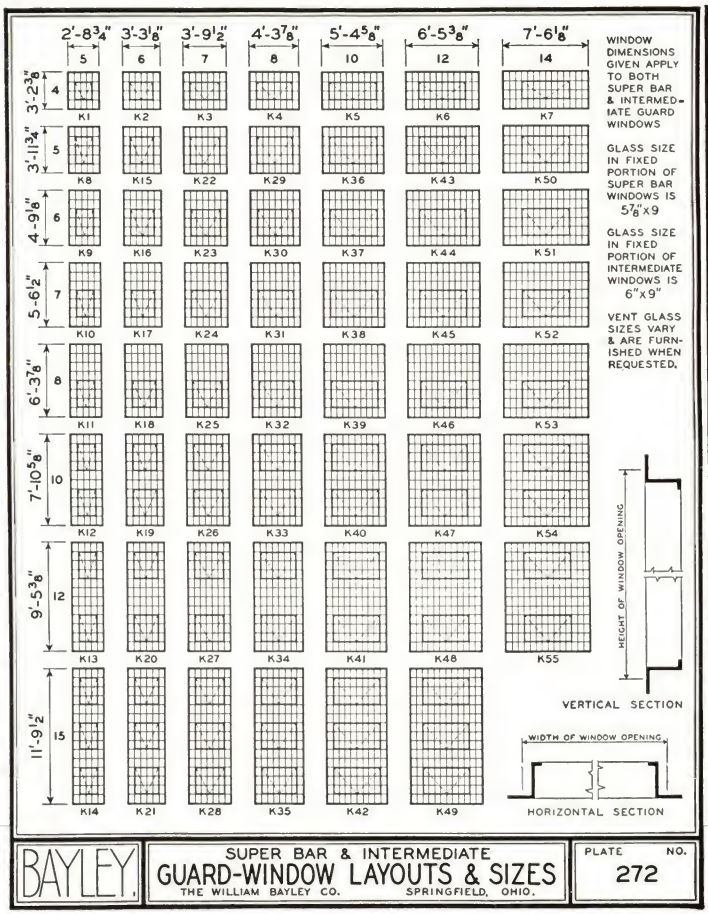
BAYLEY

SECTIONS & DETAILS
SUPER BAR GUARD-WINDOW
THE WILLIAM BAYLEY CO. SPRINGFIELD, OHIO.

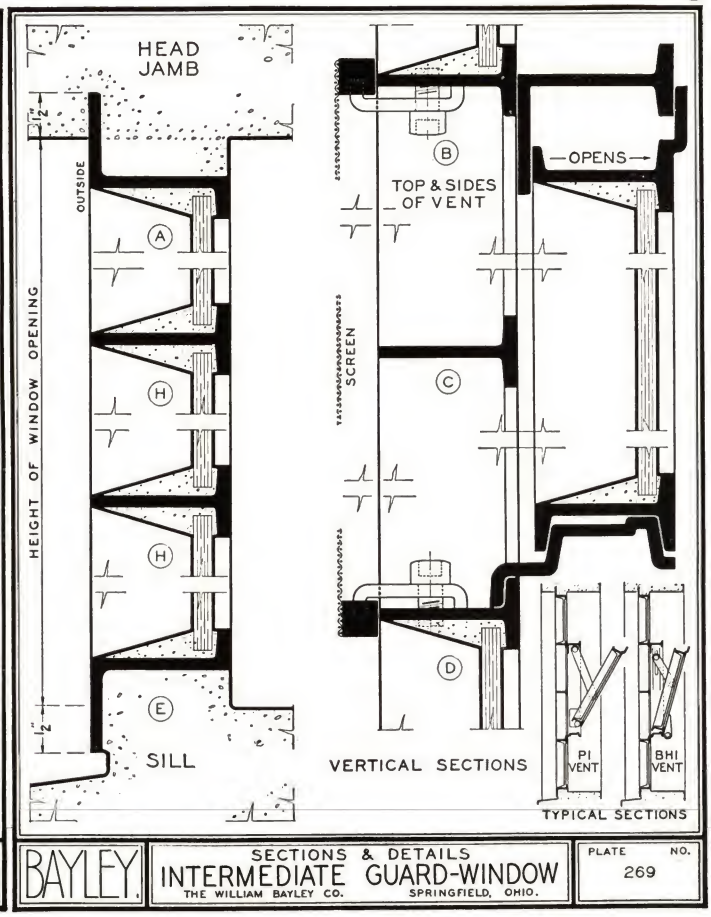
PLATE NO.
326

For Layouts See Plate 272 on Opposite Page

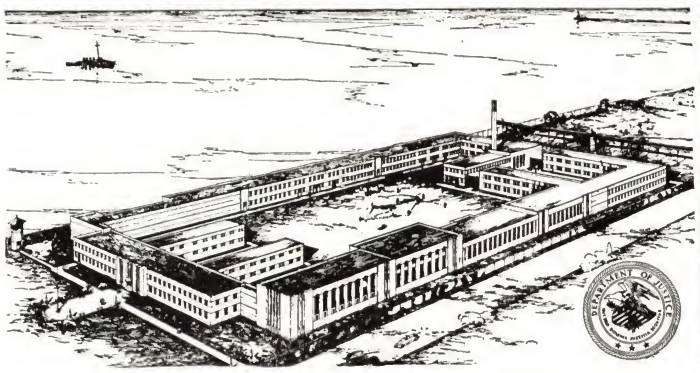
BAYLEY INTERMEDIATE BAR GUARD-WINDOWS



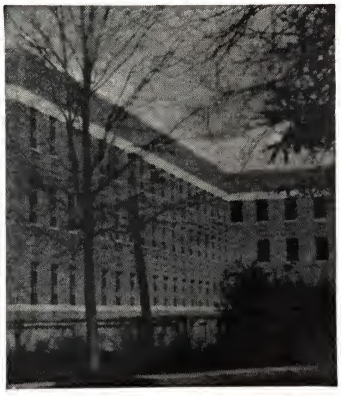
BAYLEY | SUPER BAR & INTERMEDIATE GUARD-WINDOW LAYOUTS & SIZES | THE WILLIAM BAYLEY CO. SPRINGFIELD, OHIO. | PLATE NO. 272



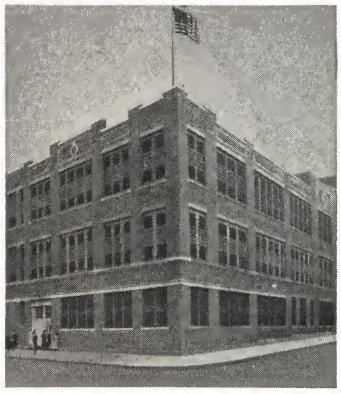
BAYLEY | SECTIONS & DETAILS INTERMEDIATE GUARD-WINDOW | THE WILLIAM BAYLEY CO. SPRINGFIELD, OHIO. | PLATE NO. 269



General View, Federal Jail, Los Angeles, California



Ionia State Hospital, Ionia, Mich. Super Bar Non-Annealable Screened

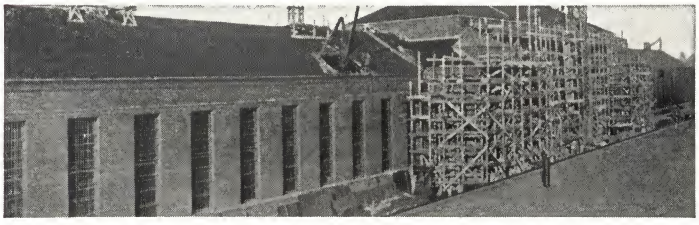


Federal Detention Headquarters, New York City, Super Bar Non-Annealable Screened

Yard View, Federal Jail, Los Angeles, California

Medium Security Building, Women's Reformatory, Dwight, Illinois

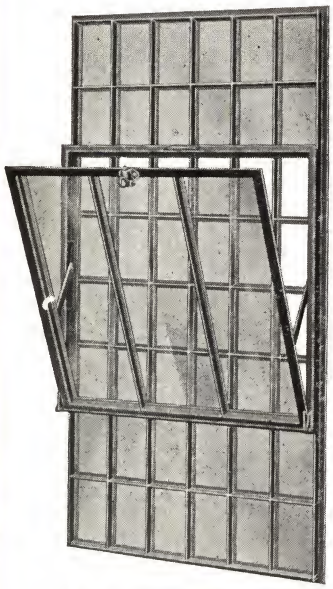
Women's House of Detention, New York City



Cell Blocks A and B, Clinton Prison, Dannemora, New York

Diagnostic Building, Illinois State Hospital, Kankakee, Illinois

BAYLEY PROTECTION WINDOWS
Screened



Protection Window. Applied ventilator inside. Screen between ventilator and grille

These Protection Windows and the Security Windows shown at bottom of this page, employ the guard window principle of grille and ventilator. Sections are 1½" deep. They are designed for protection against forced entrance from the outside when the ventilator is in either the open or closed position. Their use discourages those who unlawfully seek to enter retail stores, warehouses, factories, tool rooms and offices, especially through the windows on alley, rear or dark elevations of such buildings.

Grille of Protection Windows consists of intermediate bars. Muntins are continuous from head to sill and from jamb to jamb with intersections made as in Bayley Pivoted Windows. Grille is glazed except where ventilators occur. Glass size in grille is 6 x 9". Opening dimensions and window dimensions are identical. For sizes see plate 272, page 17.

Ventilator of intermediate bars is superimposed on, and welded to the grille. They are bottom hinged to swing in at top and have arms which limit the degree of opening. They may be hand or mechanically operated.

Ventilators are glazed and are listed by the number of open grille spaces they cover. They do not have muntins except when covering ten or more spaces in grille, then muntins are vertical only, occur directly in line with grille muntins, and are so located that the glass divisions of the ventilator are symmetrical.

Protection Windows are Putty Glazed INSIDE as standard, but may be Putty Glazed OUTSIDE. Glazing angles may be applied, but are unnecessary and are not recommended except when windows carry the Underwriters' label.

Underwriters' labeled Protection Windows may have the grille either Putty Glazed OUTSIDE or Angle Glazed INSIDE; vent must be Angle Glazed INSIDE.

Screens by BAYLEY are furnished when required. They are especially designed for this product, are of solid sections, butt welded at corners, hot dip galvanized, and covered with heavy bronze wire cloth. When grille is glazed inside, screens are placed between vent and grille.

When it is vital to protect valuable contents against forced entrance as in banks, bonded warehouses, fur and silk storages, and precious metal shops, BAYLEY recommends that designers select and specify windows of greater strength and weight from the "Detention" group. (Pages 14 to 16.)

BAYLEY SECURITY WINDOWS—Screened

Security Window. Applied ventilator inside. Screen between ventilator and grille

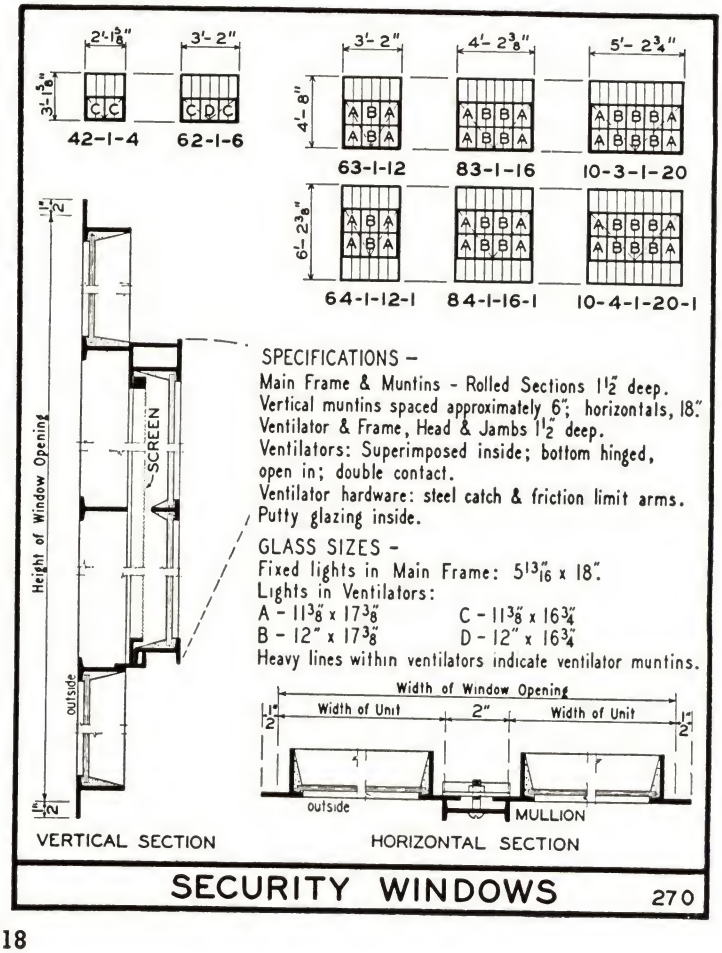
These are one of the two offerings for protection under this general heading, and are made in large quantities to standard sizes and carried in stock for prompt shipment, therefore in proportion to size and weight, they are relatively inexpensive.

The grille, of industrial sections 1½" deep, with Bayley exclusive interlocked joints, assures better protection from outside entrance than grilles of less depth and less effective jointing. Glass size in the grille is always 5-13/16"x18". Ventilators are large, superimposed, hinged at bottom to swing in. Glass sizes in ventilators are shown on plate 270 at right.

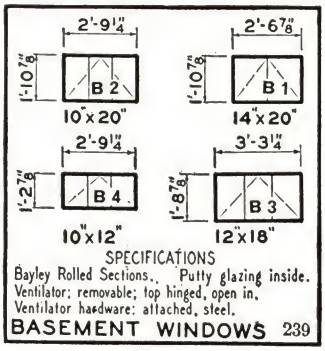
Screens especially designed by BAYLEY for this product, are of solid sections, butt welded at corners, hot dip galvanized, and covered with heavy bronze wire cloth. They drop into position between the grille and the ventilator — an exclusive Bayley feature.

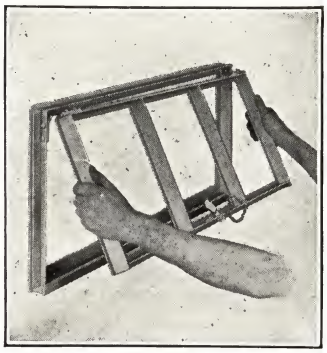
This window gives more light and ventilation than the former wood window and separate guard. It improves appearance, and since it is built as one unit it is easily cleaned and painted.

Typical ground floor alley installation of stock Security Windows. Ventilators are hinged in-swinging, — no projections outside of building line. Removable screen is in place between ventilator and grille.

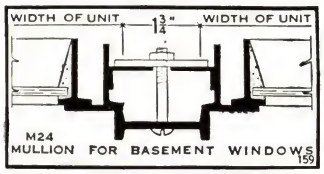


BAYLEY BASEMENT WINDOWS

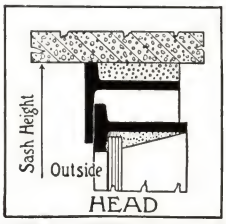


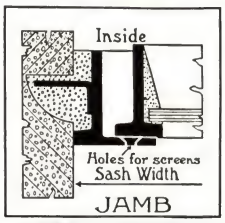


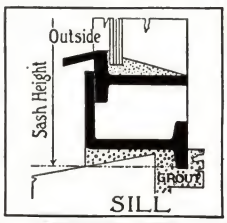
For residential purposes. In stock of steel. Wrought iron on special orders. Sections 1½" make these units especially rigid. Ventilators are top pivoted to swing in. Pivot construction permits easy removal of ventilator for glazing. Bayley screens may be furnished. Mullions M-24, for vertical attachment of more than one unit in an opening.



Bayley Basement Window Installation Details

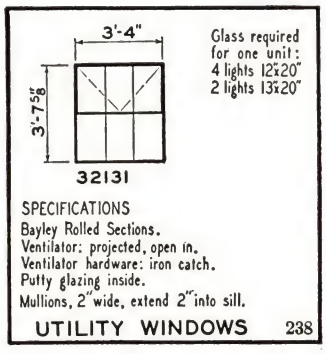






BAYLEY UTILITY WINDOWS

Are companion products to pivoted and projected windows. In stock of steel. Wrought iron on special order. Ventilators project in at top with a minimum of inside interference. Sections 1½" and 1⅝" deep. Iron catch hardware standard. Used on lot lines or where outside projections are objectionable, specially adapted to garages. This product may be screened with Bayley screens.

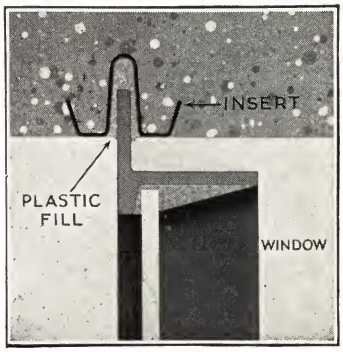


BAYLEY STEEL WINDOW INSERTS

for buildings of concrete construction and finish, or of concrete frame faced with brick.

Inserts are of galvanized rust resisting Armco ingot iron providing recesses in jambs and heads of openings for steel windows. They nail to the forms. Recesses are filled with natural colored mastic. Requires no additional caulking.

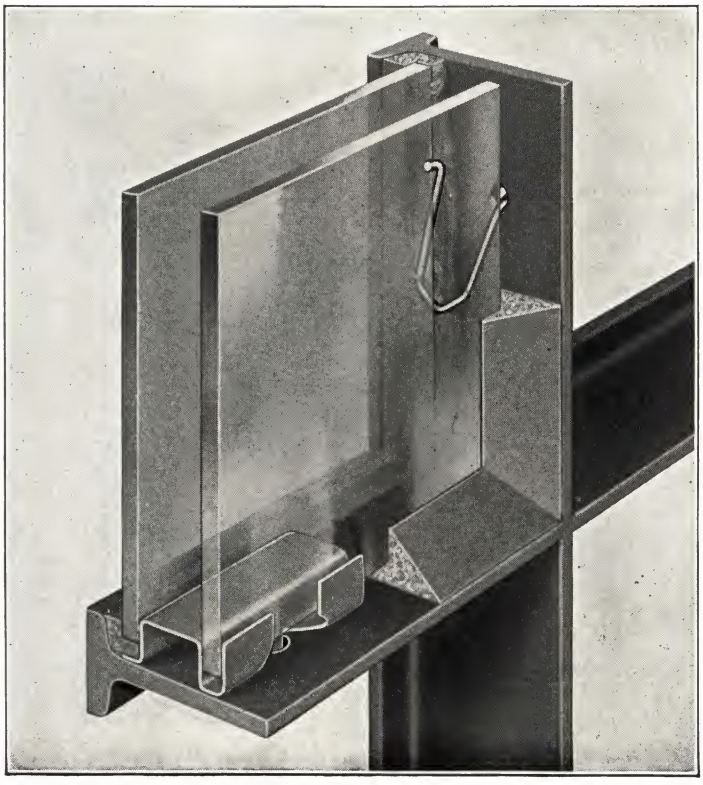
Window erection at any temperature, glazing follows immediately. General construction speeded up.



BAYLEY DOUBLE GLAZING

Double glazing the Bayley way is an exclusive feature, essential where constant temperature and humidity is desired. It also saves fuel. Double glazing in each glass space is accomplished with copper separators 2" long, which provides ⅜" or ½" space between the two lights. Bed putty is applied for outside seal, outside light inserted followed by glazing spring and double glazing separators, inside light is held in place by separators. Face putty is applied for finish and inside seal.

Bayley Windows carry enormous areas of double glazing where constant humidity and temperature is desired. This exclusive Bayley construction pays for itself by reducing heating costs.

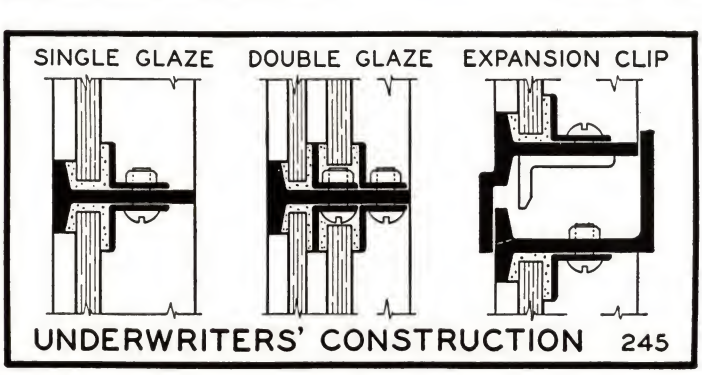


UNDERWRITER'S LABELED WINDOWS

include those with horizontal pivoted ventilators at the center and at the top (Page 3), Pivoted Windows Screened (Page 8), Projected Windows Commercial (Page 10), Projected Windows Architectural (Page 12), Protection and Security Windows (Page 18). Sections and details duplicate those of these standard windows with the following exceptions.

Glass is held in place by glazing angles, and ventilators are equipped at heads and sills with expansion clips. Window units are limited to 7 feet x 12 feet. Width and height may be either dimension. Glass size is limited to 350 square inches. Larger openings are made up of several units connected together by approved T mullions. Mullions have special anchors at heads and sills. Window openings are not limited to any width. Hardware may be either lockbar, spring catch and chain, or cam H 15 and chain. Double glazing may be had in these windows and provides two lights in each glass space, held in place by 2 sets of glazing angles. It is essential that ample bed putty be used to insure a watertight job. Underwriter's label is placed on inside face of glazing angle located at lower edge of fixed light near center and sill of unit.

Fusible Link Chain Set A



BAYLEY INDUSTRIAL STEEL DOORS

Industrial hinged door and frame

Fully meet the requirement for a steel door of intermediate grade to serve where neat appearance, durability, and economy are essential, as in service entrances of all types of buildings, in retail stores and shops, and in office, warehouse and light manufacturing buildings. They are particularly suitable for water purification and sewage disposal plants, gymnasiums, armories and the non-detention portion of penal institutions.

Extensive manufacturing equipment of latest design, and quantity production make it possible to offer this product of uniformity and quality at low cost. Stock sizes are shown on opposite page. Designs to meet individual conditions are available.

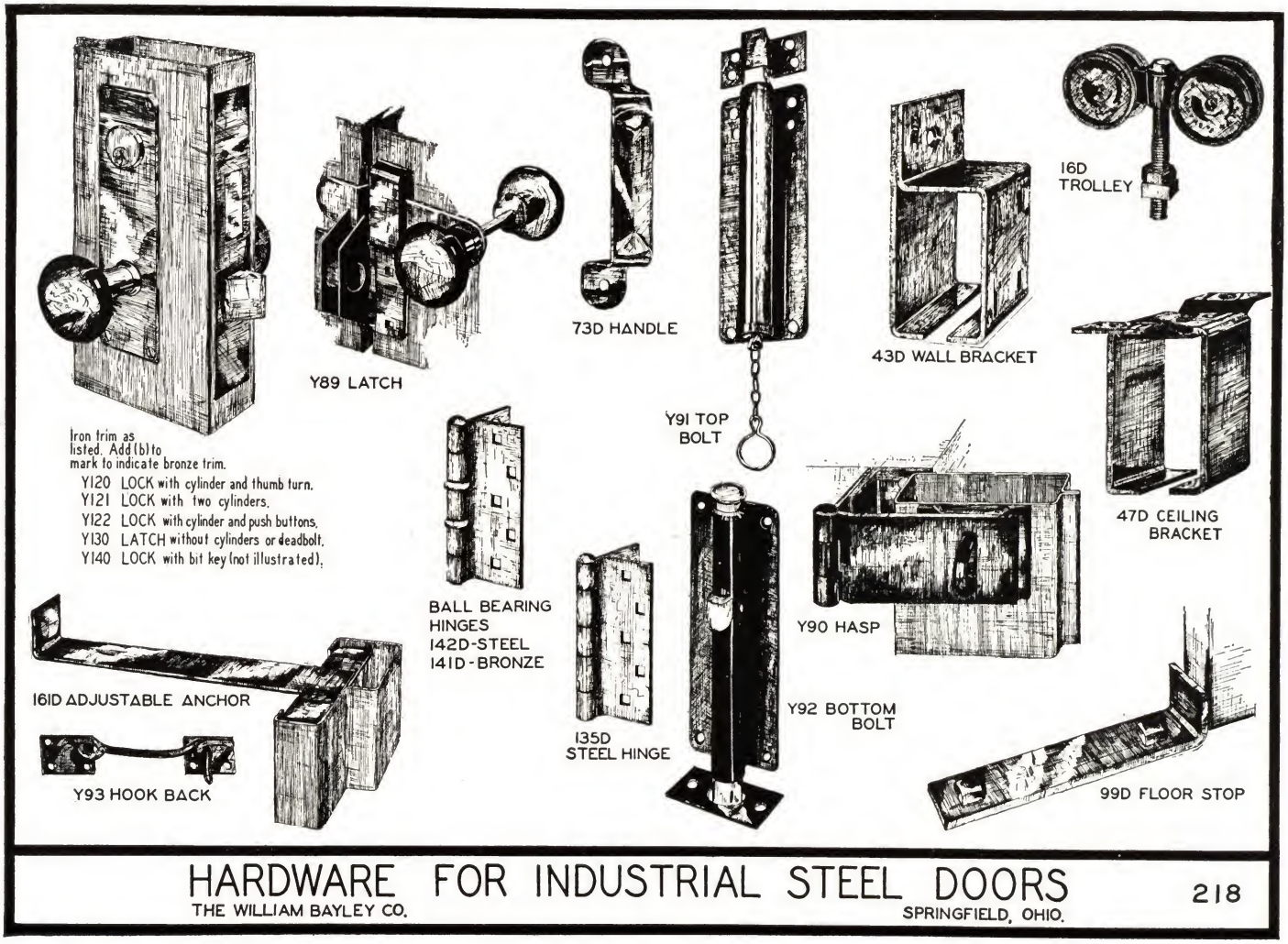
STILES AND RAILS are 5″ wide, formed of 14 gauge steel. Corners are mitered, reinforced, welded solid and ground smooth. Where hinges occur, stiles have internal reinforcement. PANELS are stretcher-leveled steel plate welded in place. Glass spaces have muntins and glazing angles for glass up to ¼″ thick. Doors may have steel panels throughout.

HARDWARE — a wide selection is offered to meet all conditions. Standards are shown below. Doors and frames are prepared for the hardware furnished by Bayley.

HARDWARE for SWING Doors — Bayley standard includes 5″ x 5″ heavy steel, half surface, template hinges No. 135D, three per leaf; top and bottom bolts for standing leaf of double doors. Other hardware available — five kinds of mortise locks with knobs, surface latch and hasps (without padlock), 5″ x 5″ ball bearing template hinges in steel or bronze, hook back (all illustrated below), door checks, and panic hardware.

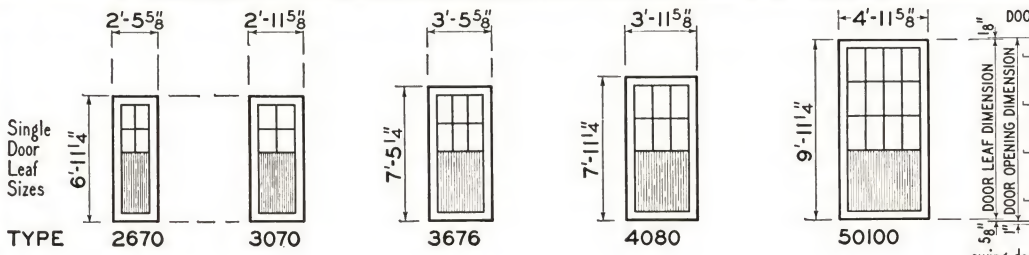
HARDWARE for SLIDE Doors — Bayley standard includes track with wall brackets (ceiling brackets if required) and four-wheel roller-bearing adjustable-hanger trolleys, hasp and staple (without padlock), handles, floor guides and stops. Latch of steel is offered at low extra cost; cylinder lock at additional cost. Mortise extension bolts with hasps may be used (padlocks not included). Slide Doors and Hardware are designed to be placed on inside of wall; specify when on outside of wall and proper hardware will be furnished.

FRAMES for SWING Doors are 14 gauge steel channels with rebate and stop. Jambs extend 1″ below finished floor line providing ⅝″ clearance between door and floor for threshold (this ⅝″ clearance can be reduced if desired by setting the frames further into the floor). Threshold is not included. Frames are shipped knocked down and have double spreader bars designed to set beneath top of finished floor. Masonry anchors with vertical adjustment are provided for 24″ spacing at jambs. Slide Door framing is not included.

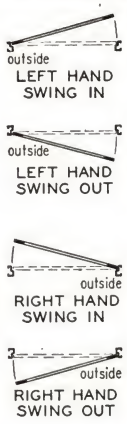


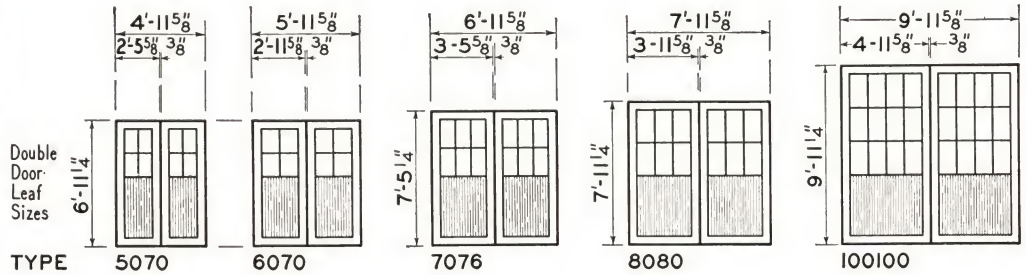
HARDWARE FOR INDUSTRIAL STEEL DOORS 218

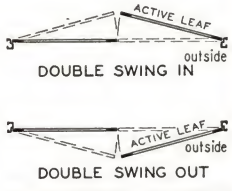
THE WILLIAM BAYLEY CO. SPRINGFIELD, OHIO.



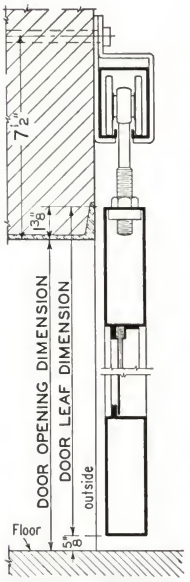
FRAME for swing doors (no frame for slide doors). 14 U.S.S. ga. pressed steel, knocked down, with wall anchors adjustable, & reinforcement for hinges.







SWING DOOR HANDING
VIEW FROM THE OUTSIDE



VERTICAL SECTION
SLIDE DOORS

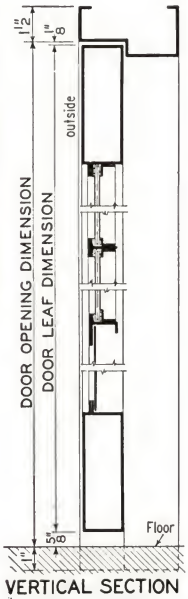
SIZES – SWING & SLIDE DOORS

DOOR TYPE		SWING & SLIDE LEAF SIZES		SWING DOOR DOOR OPENING SIZES		SWING DOOR ®MASONRY OPENINGS		SLIDE DOOR OPENING SIZES		GLASS SIZES
		Width	Height	Width	Height	Width	Height	Width	Height	
Single Doors	2670	2'-5 5/8"	6'-11 1/4"	2'-6"	7'-0"	2'-9"	7'-1 1/2"	2'-3"	6'-10 1/2"	9 1/2" x 16"
	3070	2-11 5/8	6-11 1/4	3-0	7-0	3-3	7-1 1/2	2-9	6-10 1/2	12 1/2 x 16
	3676	3-5 5/8	7-5 1/4	3-6	7-6	3-9	7-7 1/2	3-3	7-4 1/2	10 1/4 x 19
	4080	3-11 5/8	7-11 1/4	4-0	8-0	4-3	8-1 1/2	3-9	7-10 1/2	12 1/4 x 22
	50100	4-11 5/8	9-11 1/4	5-0	10-0	5-3	10-1 1/2	4-9	9-10 1/2	12 1/8 x 22 1/2
Double Doors	5070	2-5 5/8	6-11 1/4	5-0	7-0	5-3	7-1 1/2	4-9	6-10 1/2	9 1/2 x 16
	6070	2-11 5/8	6-11 1/4	6-0	7-0	6-3	7-1 1/2	5-9	6-10 1/2	12 1/2 x 16
	7076	3-5 5/8	7-5 1/4	7-0	7-6	7-3	7-7 1/2	6-9	7-4 1/2	10 1/4 x 19
	8080	3-11 5/8	7-11 1/4	8-0	8-0	8-3	8-1 1/2	7-9	7-10 1/2	12 1/4 x 22
	100100	4-11 5/8	9-11 1/4	10-0	10-0	10-3	10-1 1/2	9-9	9-10 1/2	12 1/8 x 22 1/2

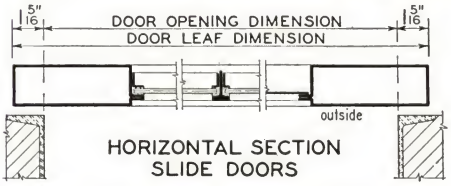
®MASONRY OPENING SIZES BASED ON USE OF BAYLEY STANDARD PRESSED STEEL DOOR FRAMES.

SPECIFICATIONS: Elevations are viewed from outside.
Swing doors: specify hand and swing (see diagrams above).
Slide doors: singles - specify "slide right" or "slide left"; all double slide doors slide apart.
Tube: 1¾x5x14 U.S.S. pressed steel. Corners mitered, internally reinforced, welded and ground.
Upper panel: inside, angle glazed. Glass and putty not included.
Lower panel: 18 U.S.S. gauge steel, welded in.
Upper and lower panels: steel (no glass) - same price, factory shipment.
Paint: one standard protective coat.
Hardware included
Swing doors: three hinges per leaf; and top and bottom bolts for inactive leaf of double doors.
Slide doors: complete track equipment, hasp and staple (without padlock), handles, guides, and stops.

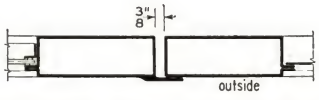
EXTRAS for SWING DOORS
CYLINDER LOCK - Iron Handles.....*
- Bronze Handles..*
LEVER LATCH (without padlock)...*
BIT KEY LOCK (leaf limit 32 sq.ft.) -
- Steel Plated Trim..*
- Bronze Trim.....*
HOOK BACK & RING.....per leaf
*ONE REQUIRED PER DOOR OPENING



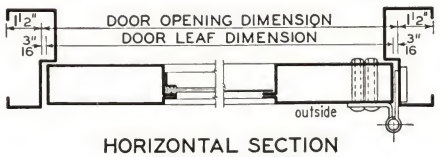
VERTICAL SECTION
SWING DOORS



HORIZONTAL SECTION
SLIDE DOORS



ASTRAGAL FOR DOUBLE DOORS
TYPICAL FOR SWING OR SLIDE



HORIZONTAL SECTION
SWING DOORS

BAYLEY

LAYOUTS, SIZES, SECTIONS & DETAILS
INDUSTRIAL DOORS
THE WILLIAM BAYLEY CO. SPRINGFIELD, OHIO.

PLATE NO. 219
SCALE 1½"=1'-0"

Stock sizes are shown on the above plate.

BAYLEY TUBULAR STEEL DOORS

Tubular Steel
Hinged Door and Frame

Are made to withstand the constant abuse incident to commercial and industrial installations, and combine strength and performance with good appearance. They are made to swing, slide, fold, and lift, with hardware of the most substantial kind designed for permanent, trouble-free service. Bayley pioneered the tubular door idea as applied to standardized manufacture, and continues to lead in design and workmanship.

STILES AND RAILS are welded steel tubes, generally 2½ x 1½ x 5/32″. Larger tubes or structural shapes are employed for doors of unusual size or design. PANELS (steel below, muntins and beads for glass above) have 1½″ deep channels which straddle and are rigidly welded to stiles and rails. This exclusive feature provides a neat appearance on both sides of door. Doors may have steel panels thruout.

HARDWARE for SWING doors includes steel hinges, and the mortise extension bolts for the inactive leaf of double doors. MORTISE LOCKS AND LATCHES especially designed and manufactured by BAYLEY of non-corrosive metals are reliable for heavy duty. Y2 LOCK has handles and cylinders both sides, and has latch bolt 2″ high and ⅞″ thick which is deadlocked by key only. CYLINDERS made for Bayley are standard; masterkeying extra. Cylinders may be omitted from either side, or thumb turn may be substituted for key. LATCH Y11 is identical in construction to Lock Y2 when cylinders are omitted. SURFACE LATCH Y14 of steel offered at lower cost. PANIC DEVICES with handle or bar release are furnished in several combinations.

HARDWARE for SLIDE doors includes complete track equipment, hasp and staple (without padlock), handles, floor guides, and stops. Slide doors and hardware are designed to be placed inside of wall; when placed outside, mention must be made so that proper hardware may be furnished. LOCK Y17 is similar in materials and construction to Lock Y2 for swing doors. LATCH Y13 of steel offered at lower cost. HASP BOLT Y71 for single, and Y72 for double doors may be used. Padlocks not included.

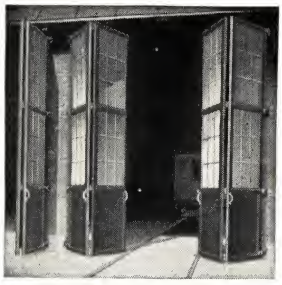
FRAMES for swing doors are structural channels fitted in shop. Slide Door framing not included.

Tubular Doors and Frames with grilles and side lights of Super Bars, in steel or non-annealable, are used in walls and corridors of prisons. They can be glazed with bullet proof glass or left open.

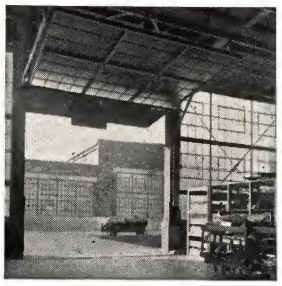
Bakery Proof Room Doors of tubular steel, with hardware of unique design, were originated by BAYLEY and are offered to meet steam and acid conditions.

Send for separate catalog on Airplane Hangar Doors.

BAYLEY STEEL DOORS HAND OPERATED OR ELECTRIC CONTROLLED



Railroad Accordion



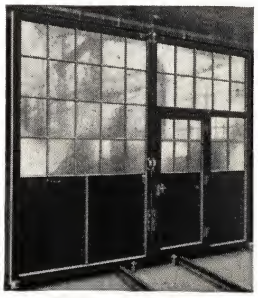
Large Canopy

Canopy Open and Closed

Overhead

Craneway

Railroad Hinged



Railroad Sliding

Proof Room Louvre

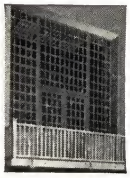
Tubular Hangar

Structural Hangar

Fire Station

Bifold

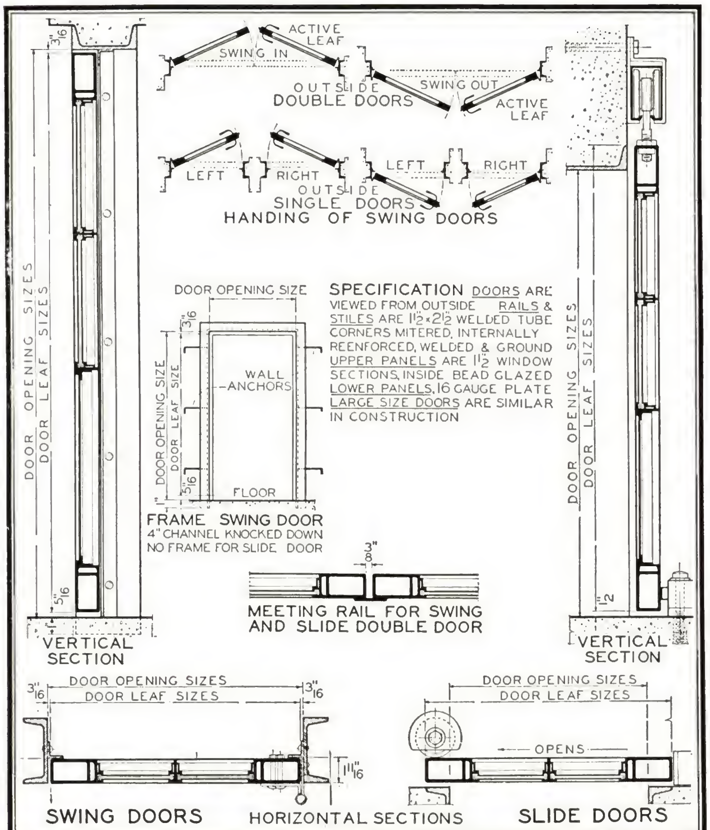
Prison and Grille



Vertical Lift

Tubular Hangar

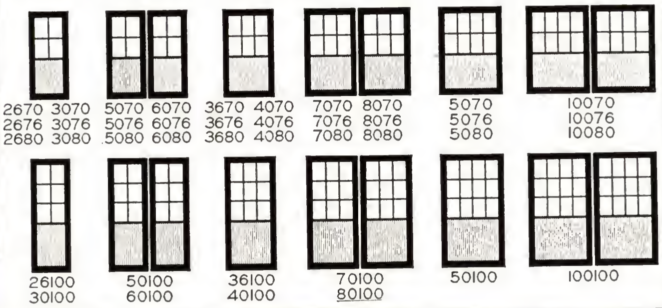
BAYLEY TUBULAR STEEL DOORS—DETAILS, LAYOUTS, AND SIZES



BAYLEY | SECTIONS & DETAILS — HEAVY INDUSTRIAL DOORS — THE WILLIAM BAYLEY CO. SPRINGFIELD, OHIO. | PLATE NO. 180 — SCALE NONE

SWING AND SLIDE DOORS SIZE SCHEDULE

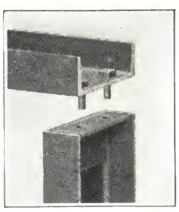
Single Doors Type	Swing WI	Swing HI	Slide WI	Slide HI	Double Doors Type	Swing WI	Swing HI	Slide WI	Slide HI	Door Leaf WI	Door Leaf HI	Glass WI	Glass HI
2670	2'-6"	7'-0"	2'-3"	6'-10½	5070	5'-0"	7'-0"	4'-9"	6'-10½	2'-5⅝	6'-11½	11⅝	21⅛
3070	3-0	"	2-9	"	6070	6-0	"	5-9	"	2-11⅝	"	14⅝	"
3670	3-6	"	3-3	"	7070	7-0	"	6-9	"	3-5⅝	"	11⅝	"
4070	4-0	"	3-9	"	8070	8-0	"	7-9	"	3-11⅝	"	13⅝	"
5070	5-0	"	4-9	"	10070	10-0	"	9-9	"	4-11⅝	"	13⅛	"
2676	2-6	7-6	2-3	7-4½	5076	5-0	7-6	4-9	7-4½	2-5⅝	7-5½	11⅝	24⅛
3076	3-0	"	2-9	"	6076	6-0	"	5-9	"	2-11⅝	"	14⅝	"
3676	3-6	"	3-3	"	7076	7-0	"	6-9	"	3-5⅝	"	11⅝	"
4076	4-0	"	3-9	"	8076	8-0	"	7-9	"	3-11⅝	"	13⅝	"
5076	5-0	"	4-9	"	10076	10-0	"	9-9	"	4-11⅝	"	13⅛	"
2680	2-6	8-0	2-3	7-10½	5080	5-0	8-0	4-9	7-10½	2-5⅝	7-11½	11⅝	21⅛
3080	3-0	"	2-9	"	6080	6-0	"	5-9	"	2-11⅝	"	14⅝	"
3680	3-6	"	3-3	"	7080	7-0	"	6-9	"	3-5⅝	"	11⅝	"
4080	4-0	"	3-9	"	8080	8-0	"	7-9	"	3-11⅝	"	13⅝	"
5080	5-0	"	4-9	"	10080	10-0	"	9-9	"	4-11⅝	"	13⅛	"
26100	2-6	10-0	2-3	9-10½	50100	5-0	10-0	4-9	9-10½	2-5⅝	9-11½	11⅝	22
30100	3-0	"	2-9	"	60100	6-0	"	5-9	"	2-11⅝	"	14⅝	"
36100	3-6	"	3-3	"	70100	7-0	"	6-9	"	3-5⅝	"	11⅝	"
40100	4-0	"	3-9	"	80100	8-0	"	7-9	"	3-11⅝	"	13⅝	"
50100	5-0	"	4-9	"	100100	10-0	"	9-9	"	4-11⅝	"	13⅛	"



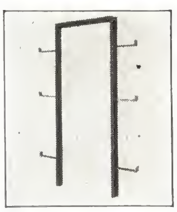
BAYLEY | LAYOUTS & SIZES — HEAVY INDUSTRIAL DOORS — THE WILLIAM BAYLEY CO. SPRINGFIELD, OHIO. | PLATE NO. 179 — SCALE NONE

BAYLEY TUBULAR STEEL DOOR HARDWARE

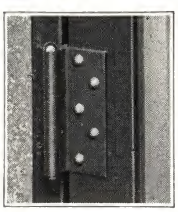
FOR HINGED DOORS



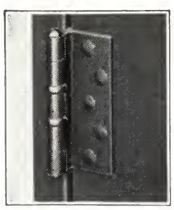
Door Frame Corner Assembly



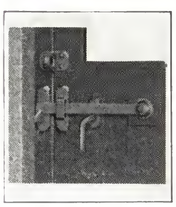
Door Frame Erected



Steel Offset Hinge 135D



Ball Bearing Hinges 142D-Steel, 141D-Bronze

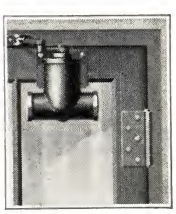


Steel Latch Y14 and Hasps 131D

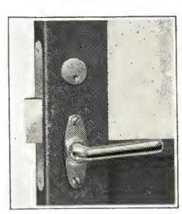
Steel Latch Y14 Interior

Extension Bolt Y70

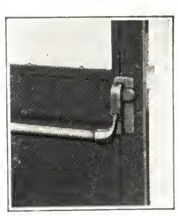
Hasp Extension Bolt Y71



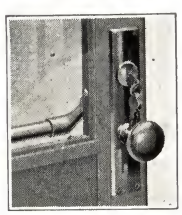
Door Closer



Brass Cylinder Lock Y2

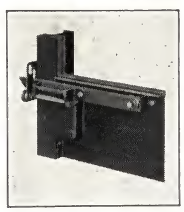


Panic Latch Y20 (Bar Release)



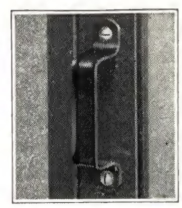
Panic Release Y55 (Outside Control)

FOR SLIDING DOORS

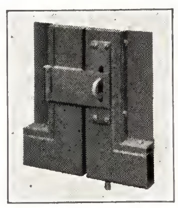


Sliding Door Latch Y13, Interior

Sliding Door Latch Y13, Exterior

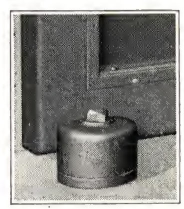


Pressed Steel Handle 73D

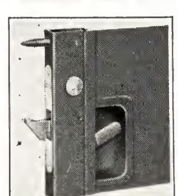


Double Hasp Extension Bolt Y72

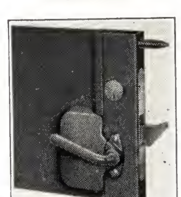
Flush Extension Bolt Y63



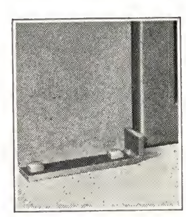
Guide Roller Y73



Sliding Door Lock Y17, Exterior



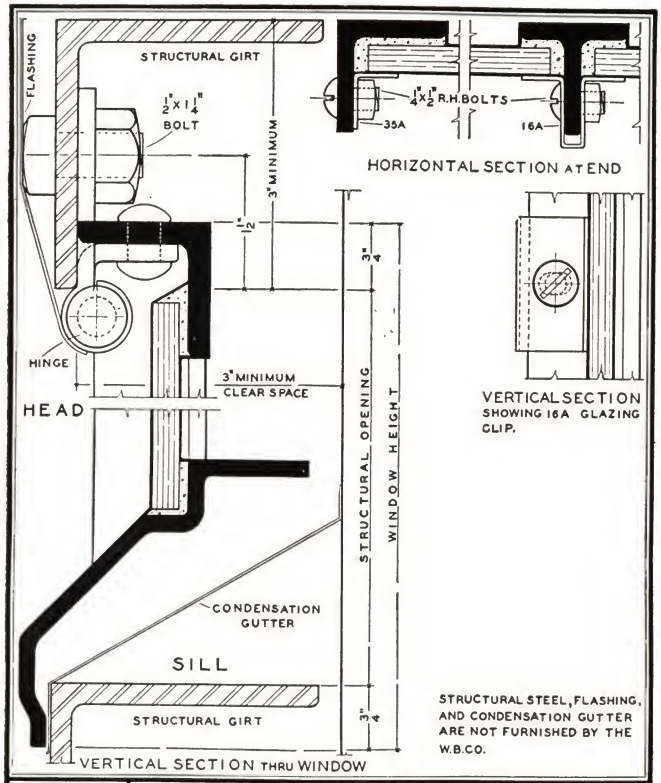
Sliding Door Lock Y17, Interior



Door Stop 99D

BAYLEY

CONTINUOUS WINDOWS AND OPERATORS



BAYLEY SPRINGFIELD DAYTON | FULL SIZE SECTIONS CONTINUOUS WINDOWS THE WILLIAM BAYLEY CO. SPRINGFIELD OHIO. | PLATE NO. 181

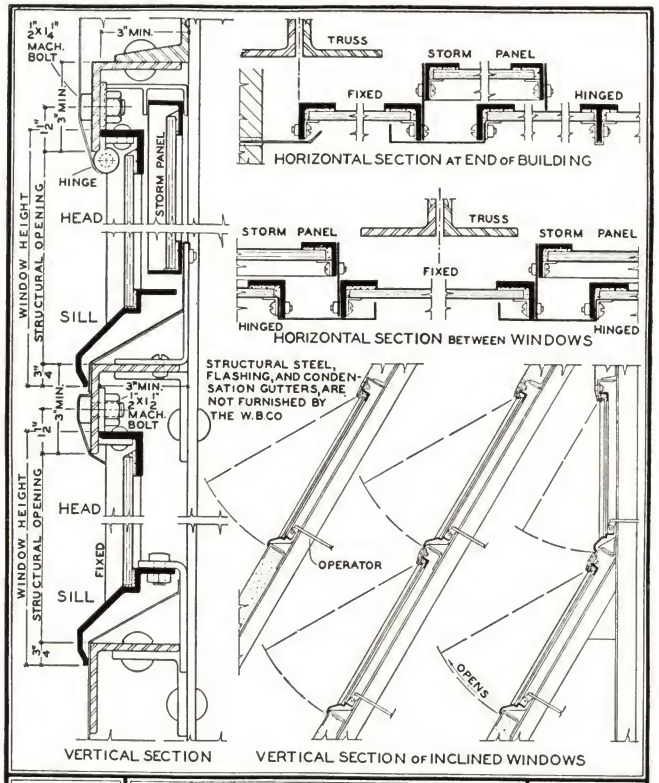
Designed for roofs and sidewalls these windows are constructed of specially designed solid rolled steel sections riveted together for strength and permanency. The sill member is of a design having no pockets for water or ice in either the open or closed position, at any useful angle. It has an integral flange for operator attachment and a flat-surface contact with the structural steel and its shape is such that a condensation gutter of effective size and form may be used where advisable. Hinges, at four feet centers, placed inside of steel framing for protection, are of heavy steel with three-eighths inch brass pins and have slotted holes for adjustment to steel work. Vertical bars are spaced at two feet centers. Putty-bed on all members is in the same plane which facilitates glazing, requires less putty and reduces glass breakage. Where panels are joined the splice is placed at the center of glass space, and fully develops the strength of horizontal members. Vertical weathering, where hinged portions meet fixed panels, is of formed galvanized steel. Hinged windows have fixed panels one foot wide at extreme ends of lines and two feet wide at intermediate ends. All steel is given one dip coat of standard red oxide paint.

Overall length of windows should be held to full feet in order to use stock and insure quick shipment. Variations from full feet to be taken up with flashing by others.

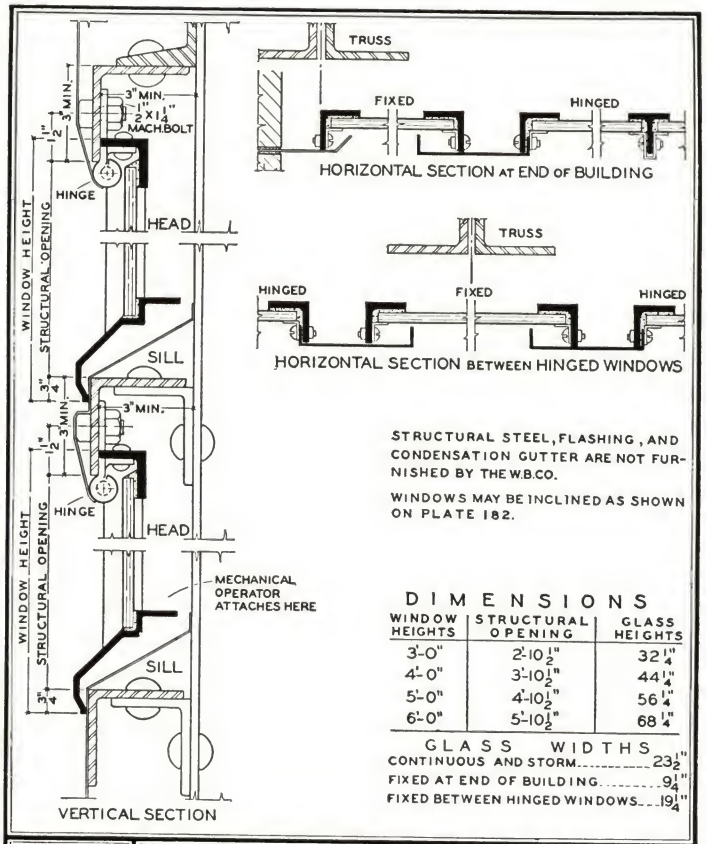
Storm Panels are not included but are furnished at extra cost when specially ordered and fit inside the three inch clearance space with provision to drain water outside. Glass in storm panels is of same size as glass in main part of line.

Wire glass one quarter inch thick is recommended and must be twenty-three and one-half inches wide, except in end panels, set in an even bed of putty struck flush with outside surface of glass and held by galvanized metal clips and bolts. Face putty may be used at extra cost.

Items not furnished by The William Bayley Co. are structural steel, all flashing and condensation gutters, glass, putty, erection, pointing, field painting and glazing, unless specifically mentioned in the contract.



BAYLEY SPRINGFIELD DAYTON | TOP HINGED & FIXED STORM PANEL INCLUDED CONTINUOUS WINDOWS THE WILLIAM BAYLEY CO. SPRINGFIELD OHIO. | PLATE NO. 182



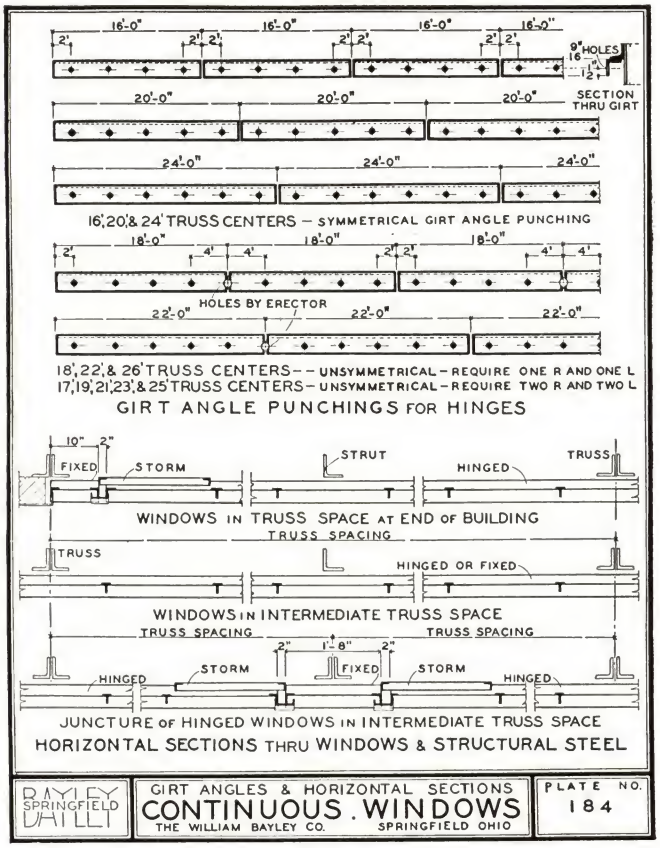
DIMENSIONS

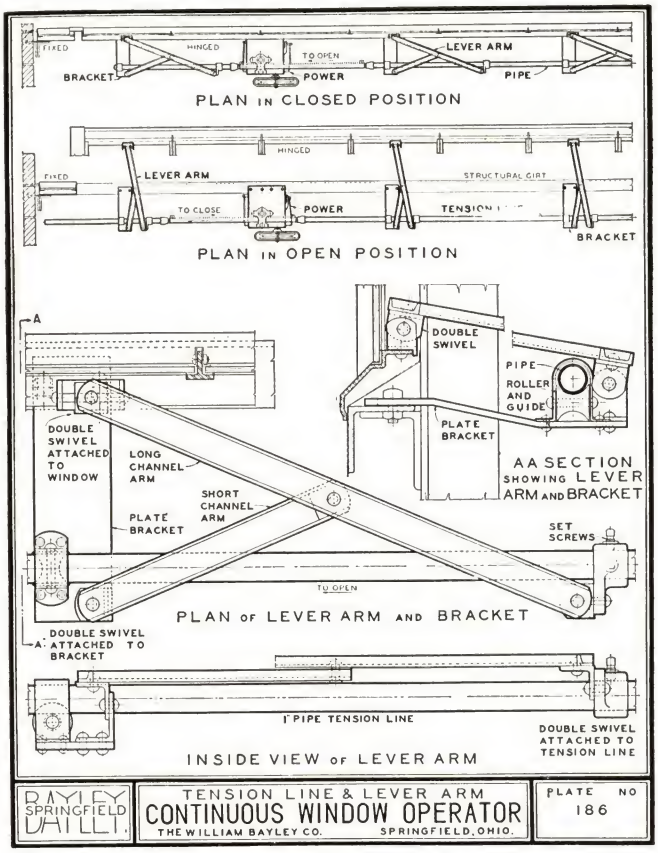
WINDOW HEIGHTS	STRUCTURAL OPENING	GLASS HEIGHTS
3'-0"	2'-10½"	32¼"
4'-0"	3'-10½"	44¼"
5'-0"	4'-10½"	56¼"
6'-0"	5'-10½"	68¼"

GLASS WIDTHS

CONTINUOUS AND STORM..... 23½"
FIXED AT END OF BUILDING..... 9¼"
FIXED BETWEEN HINGED WINDOWS... 19¼"

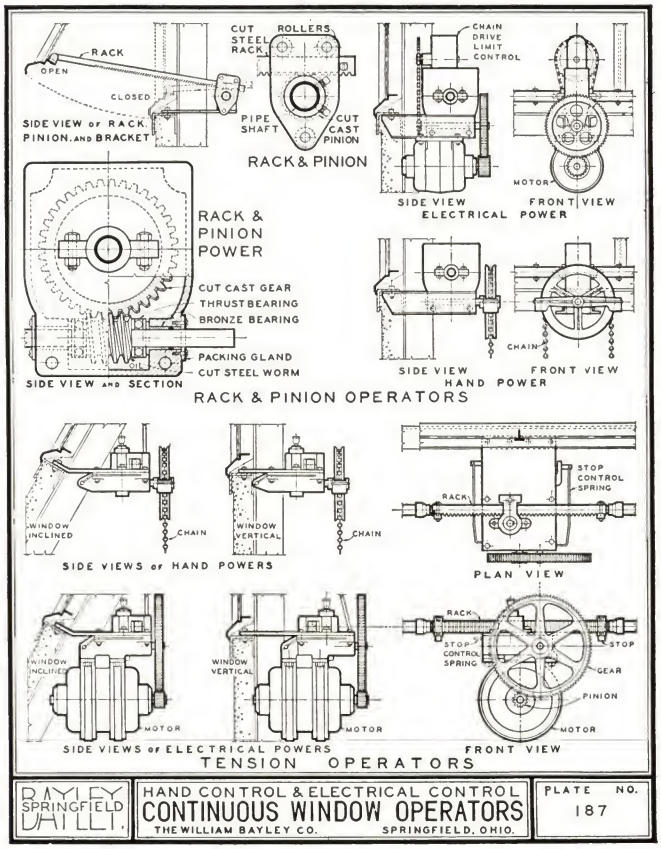
BAYLEY | TOP HINGED STORM PANEL OMITTED CONTINUOUS WINDOWS THE WILLIAM BAYLEY CO SPRINGFIELD OHIO | PLATE NO 183

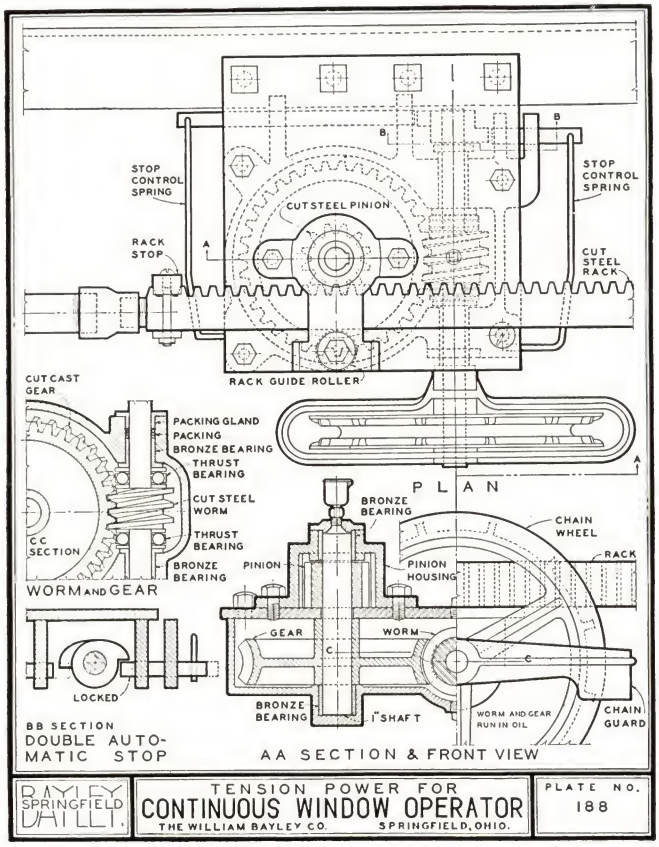




Continuous Window Operators are of the Tension type or Rack and Pinion type. They may be either manually or electrically controlled. Lengths of lines are determined by conditions of the installation. In general, Tension type is used for long lines and Rack and Pinion type used for short lines. This product is of sturdy construction and good quality. Parts are designed to eliminate friction and include such features as machine-cut racks, pinions, worms and gears; bronze or ball bearings, where necessary; and provision for working parts to run in oil. BAYLEY MECHANICAL OPERATORS for Sidewall and Continuous Windows are offered with or without window products.

BAYLEY electric control is dependable and recommended.

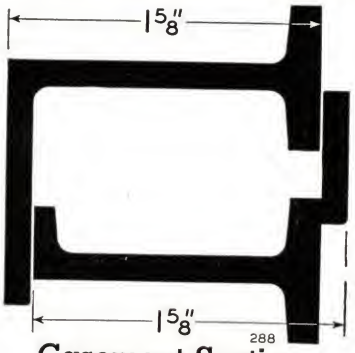




BAYLEY

CASEMENTS—SERIES 30

For Residential, Office and Monumental Buildings

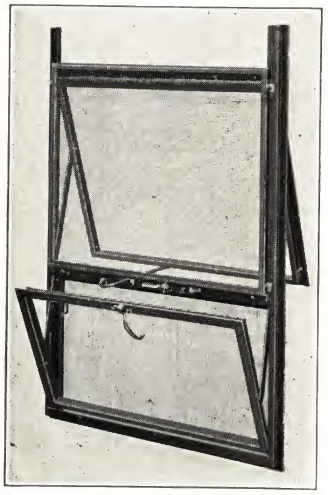


Casement Sections

The Series 30 section as developed by Bayley represents unusual features for windows for all types of buildings requiring the finest equipment. As shown in the detail the form of the sections provides flat surface contacts parallel to the glass with the resulting advantages of smooth, tight operation, improved appearance and minimum air leakage.

The Series 30 sections are formed into a variety of window types to meet practically any conditions or requirements of a particular building. Standard types are shown below; Bayley engineers will be glad to work with architects to design special windows when required. *(Continued on next page)*

BAYLEY CASEMENTS PROJECTED—Screened—Series 30



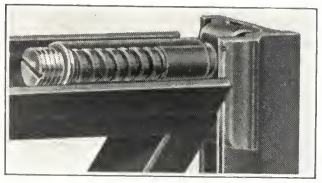
Ventilators to move out and down, and in and up, are a recent development for domestic uses. These movements insure unusual service and weathering, especially for casements of Series 30 sections and in combination with the Bayley developed adjustable friction arms and shoes. Series 30 steel contact sections 1⅝" deep, meet all the conditions of casements of this kind. Corners are welded and ground as in other windows of this group.

Supporting arms are heavy and arranged to hold casements firmly. The sliding friction pivot shoes are of bronze machined and are adjustable. They top the list in casement hardware.

Projected out ventilators have screens inside and bronze through-screen operator H87. Projected in ventilators have screens outside and bronze handle H81.

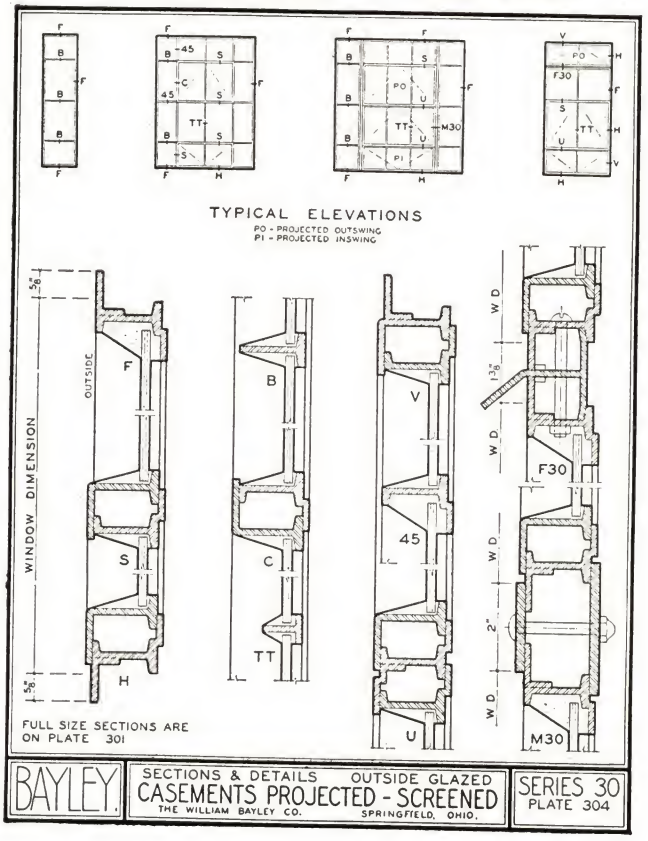
Projected Out Ventilator. Screen Inside Through screen operator H87

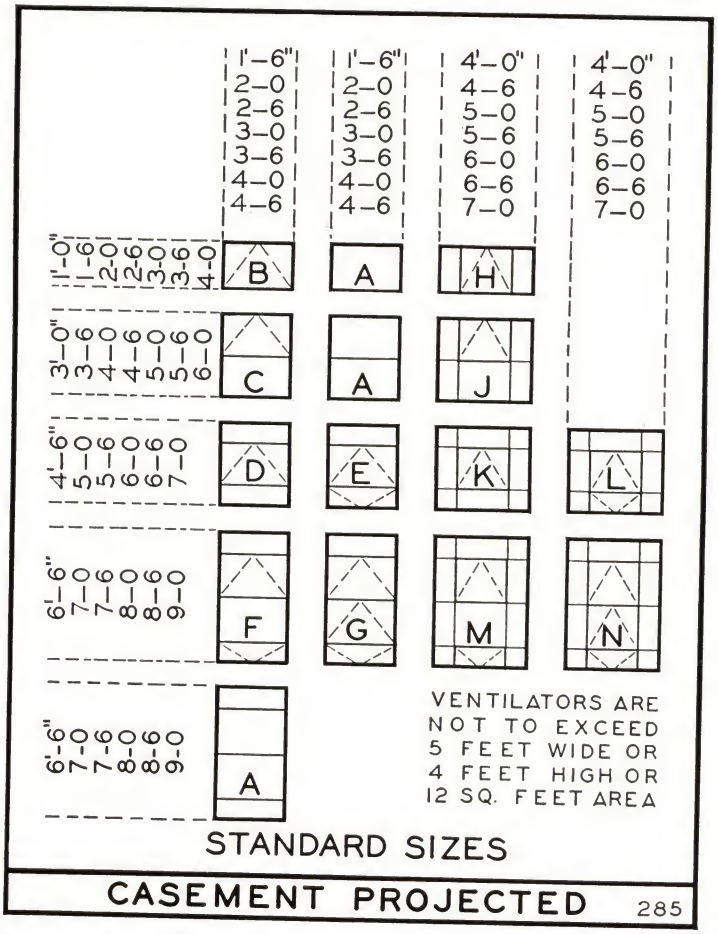
Projected In Ventilator. Screen Outside Handle H 81



Sliding Friction Pivot

welded to projected "out" and "in" ventilators. Constant friction is maintained by heavy helical spring and machined adjusting screw. Working parts protected against paint and dirt.





Materials and Features

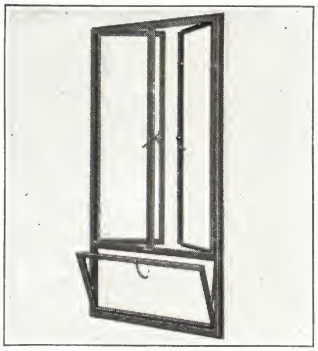
SECTIONS are of new billet hot rolled when of steel and extruded when of bronze or aluminum. Classification intermediate. Depth 1⅝". Minimum thickness ⅛". Process straightened. Shown Full Size (plate 288) on opposite page.

SHOP PRACTICE includes the use of only carefully selected materials, most accurate machining and fitting, and corners of units of ventilators and of openings for ventilators butt welded and surface ground. Finish is one coat of gray paint.

HARDWARE includes extended hinges of steel to provide arm room for outside washing. They are welded to casements and have solid bronze collar pivots. Underscreen casement operator is of the rotary type with bronze operating handle and bronze locking handle, in statuary bronze finish. Bronze friction adjuster of the concealed type, and lever handles are standard where screens are not required. For inswing see illustrations. Standard hardware is solid bronze.

SCREENS of Bayley manufacture are long life and rigid. Frames of steel or bronze.

BAYLEY CASEMENTS COMBINATION—Screened—Series 30

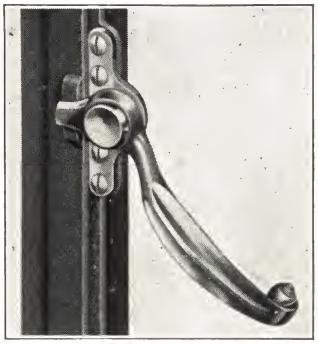


Casement Combination

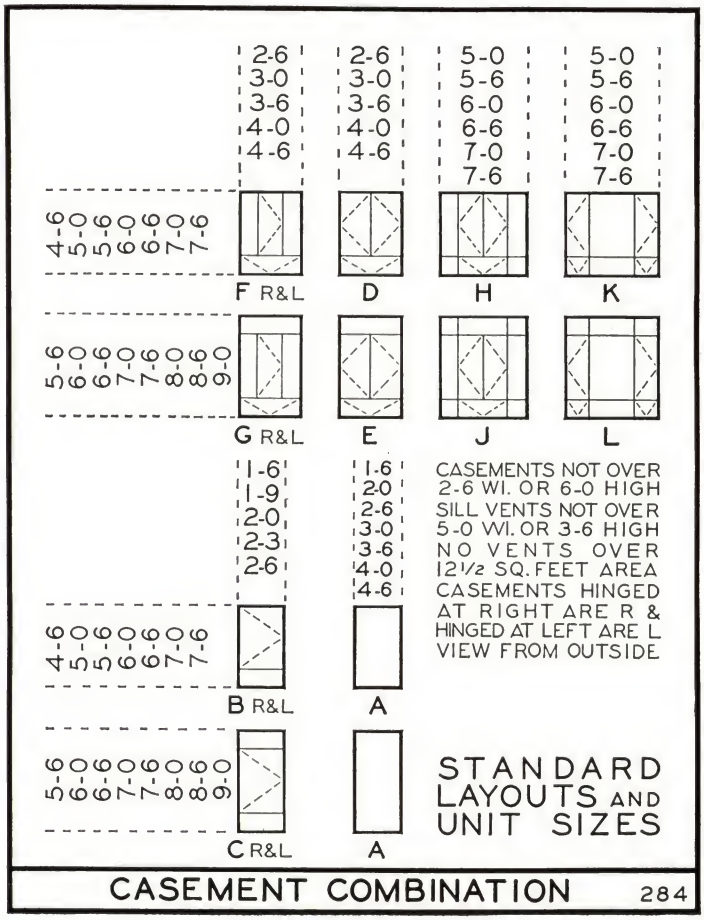
Incorporated in this steel window is a sill line inswinging horizontal casement similar to that of Sir Christopher. The vertical casements, however, swing out. The fixed portions also offer drapery spaces.

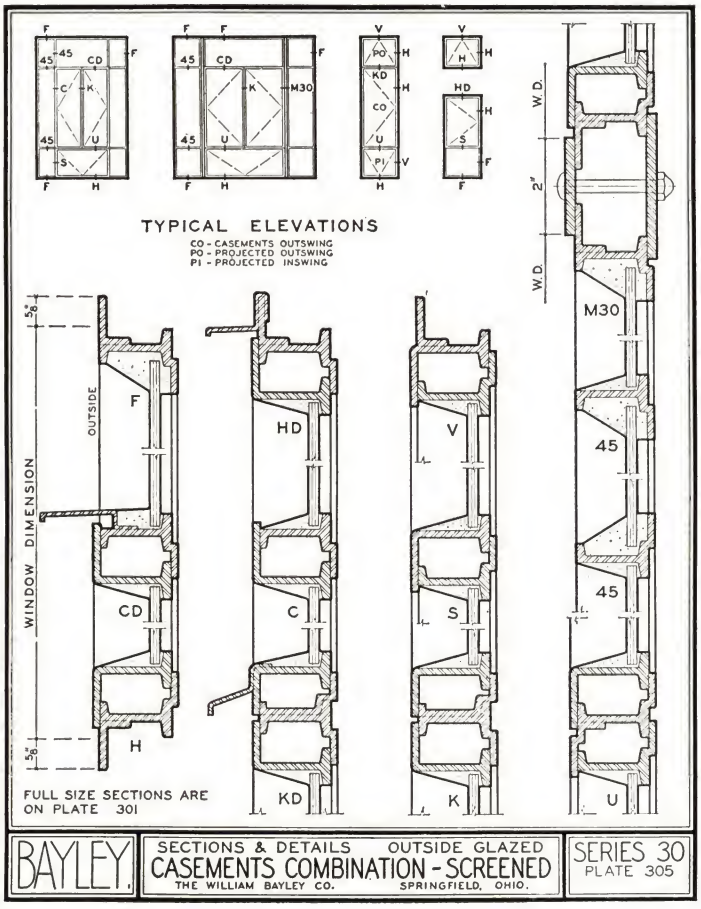
Hardware for the outswinging parts is through the sill and screens for these openings are on the inside. In construction and material these screens duplicate those of Sir Christopher, are Bayley made and an integral part of the window.

For those not desiring the complete inswing, but whose requirements fall within limited layouts, this window is recommended above all other casement windows.



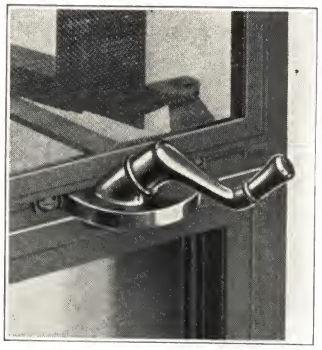
Bronze Handle H70





BAYLEY CASEMENTS—OUTSWING
Screened—Series 30

Casement Outswing



Geared Underscreen Operator H115

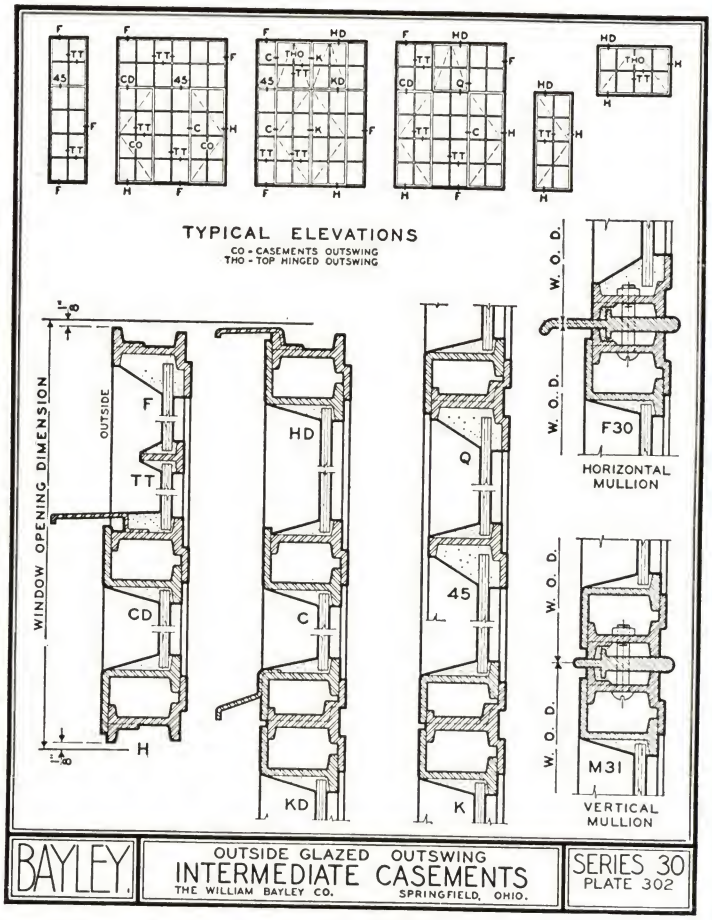
Very early workers in metal casements blazed the trail for these single or double outswinging ventilators, sometimes combined with casement transoms.

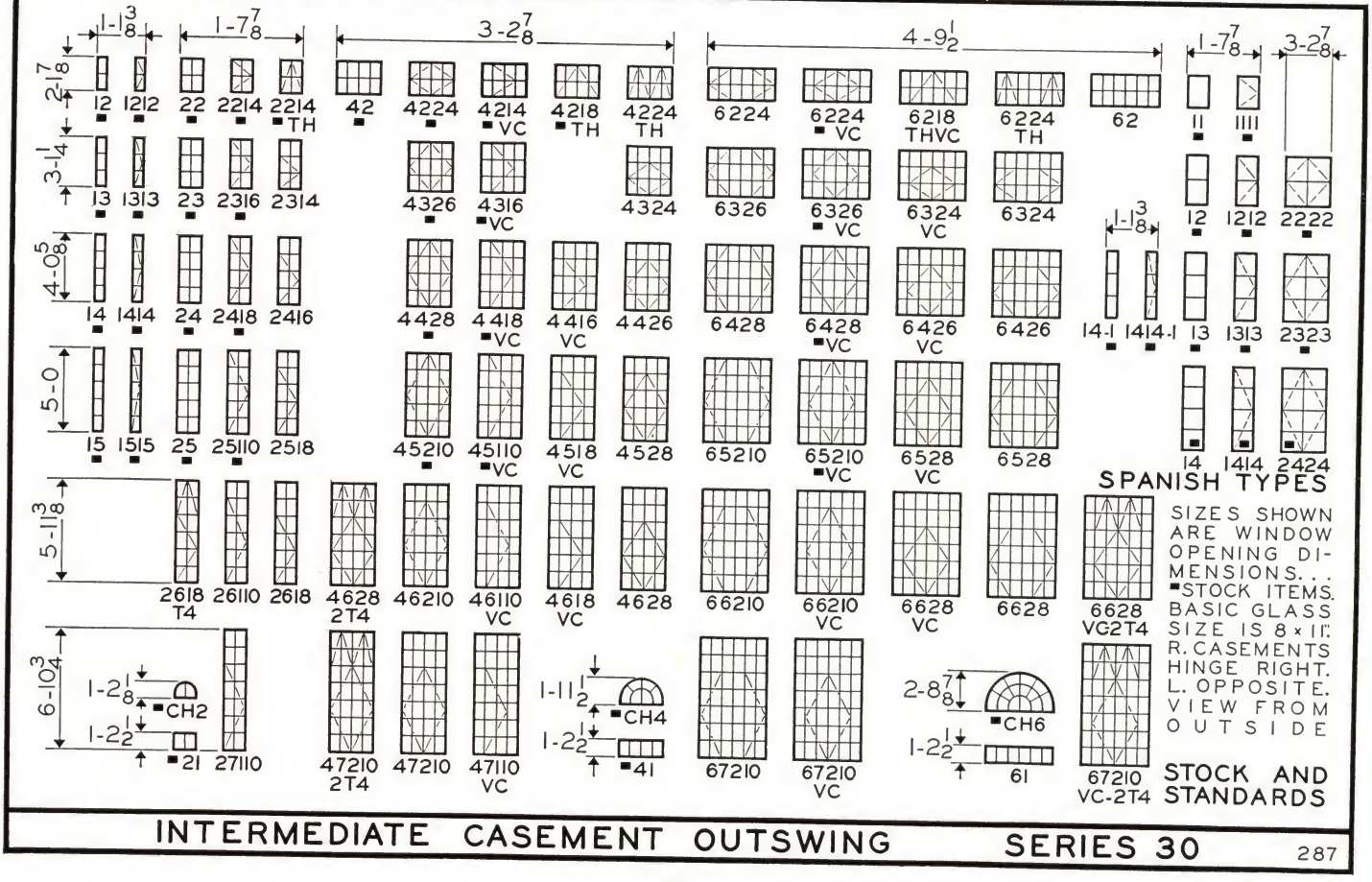
Standards and listed special layouts are extensive in sizes and numbers. Available in steel and bronze and aluminum.

Ventilators like in all Series 30 products are rigid with sections shaped to insure good permanent contacts. Their 1⅝" depth is fabricated the Bayley way with mitered corners of casements and the corners of ventilator openings butt welded and ground flush on contact and outside faces. Welding converts each of these frames into continuous perimeters. The flat, parallel-to-glass contacts, assures good weather protection even though the casement may become sagged a trifle through rough handling before or after installation.

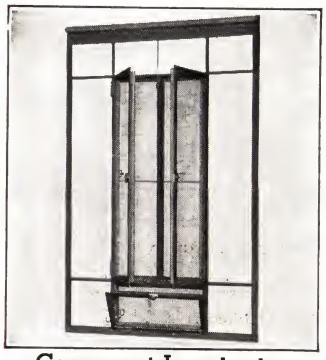
Hardware is through-the-sill stays for opening, holding, and closing and hinges are extended kinds. This extended hinge provides arm room for outside washing from the inside.

Screens flat and on the inside are removable and can be replaced with a panel of glass for insulation against outside temperatures and where air conditioning is employed.

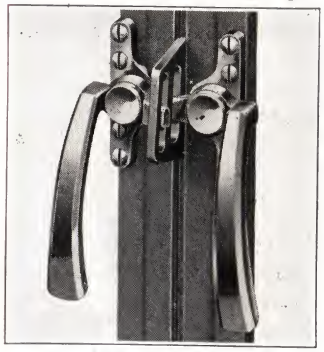




BAYLEY CASEMENTS—INSWING COMBINATION—Screened—Series 30



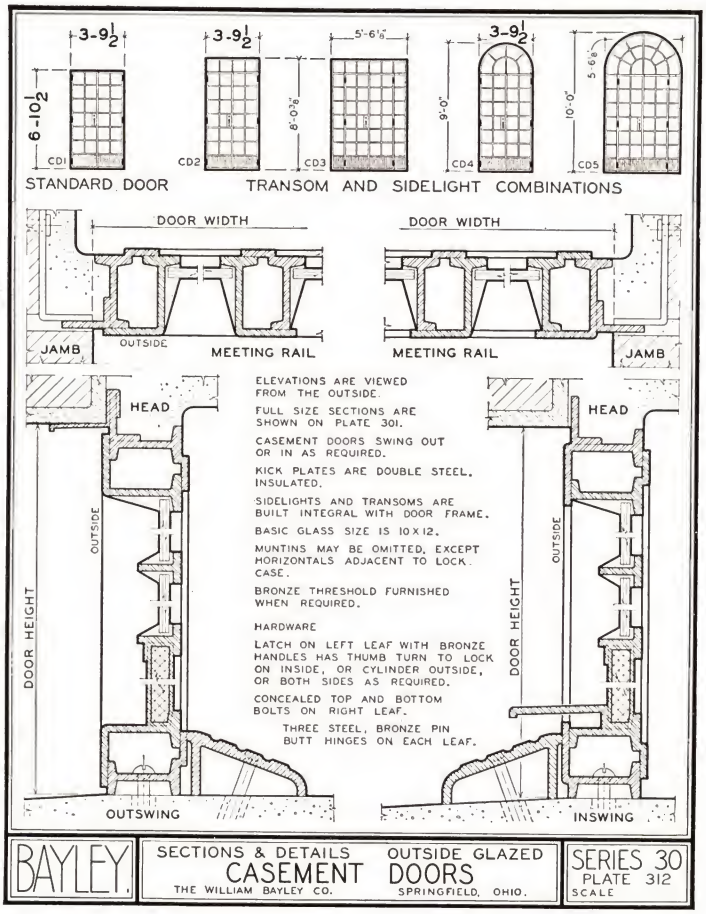
Casement Inswinging



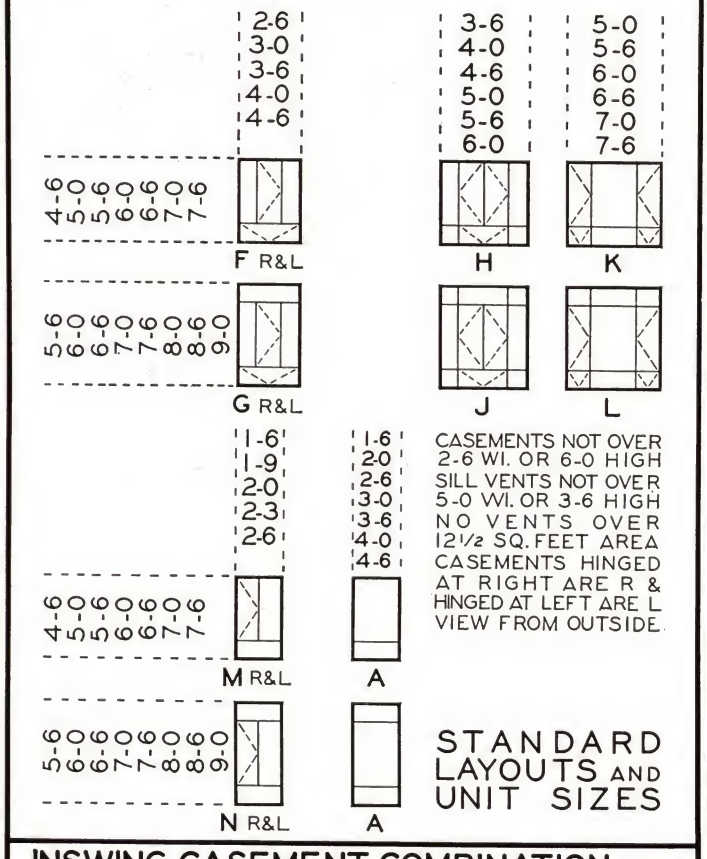
Bronze Handles H123 and H122R for vertical in-opening casements. H122R for horizontal in-opening casement

Known as the "Sir Christopher" the inswing casement developed by Bayley of Series 30 Sections shows many unique characteristics which solve those long-standing problems which have confronted architects when using casements. Unusual features of layout, quality, convenience and efficiency are individual and distinctive.

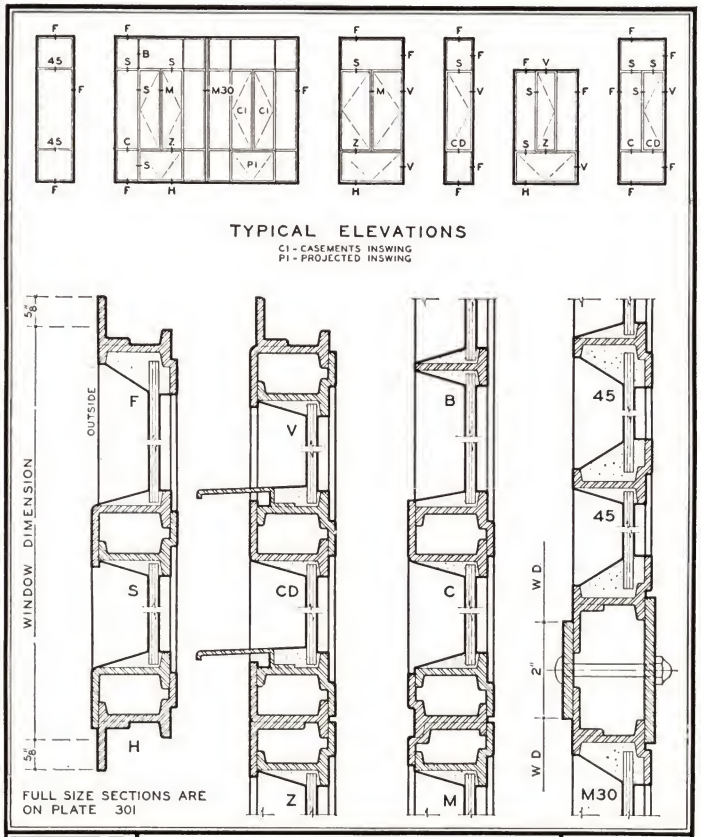
Vertical inswinging casements are set in a frame of fixed glass and have below a horizontal in-opening casement. Such a design provides for draperies and shades and assures draftless ventilation under almost any condition. Vertical casements opening flat against fixed glass, outside washing from inside, fixed side lights for draperies, life safety because of difficult egress through narrow ventilator spaces, screens with steel or bronze frames hinged and to lock, supplement other features of this draft-control, easily operated window.



BAYLEY — SECTIONS & DETAILS OUTSIDE GLAZED CASEMENT DOORS — THE WILLIAM BAYLEY CO. SPRINGFIELD, OHIO. — SERIES 30 PLATE 312 SCALE



INSWING CASEMENT COMBINATION 286



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